



REPUBLIK INDONESIA  
KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

## SURAT PENCATATAN CIPTAAN

Dalam rangka perlindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan : EC00202303587, 12 Januari 2023

**Pencipta**

Nama : **Drs. Damar Prasetyo, M. Kom**

Alamat : Taman Giwangan Asri I Blok B 12 RT/RW 041/001, Kel. Giwangan, Kec. Umbulharjo, D.I.Yogyakarta, Yogyakarta, DI YOGYAKARTA, 55163

Kewarganegaraan : Indonesia

**Pemegang Hak Cipta**

Nama : **Drs. Damar Prasetyo, M. Kom**

Alamat : Taman Giwangan Asri I Blok B 12 RT/RW 041/001, Kel. Giwangan, Kec. Umbulharjo, D.I.Yogyakarta, Yogyakarta, DI YOGYAKARTA, 55163

Kewarganegaraan : Indonesia

Jenis Ciptaan : **Program Komputer**

Judul Ciptaan : **Sistem Pendukung Keputusan Sumber Daya Perguruan Tinggi (SPK-SDPT)**

Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia : 9 Januari 2023, di Yogyakarta

Jangka waktu perlindungan : Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.

Nomor pencatatan : 000436509

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.  
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.



a.n Menteri Hukum dan Hak Asasi Manusia  
Direktur Jenderal Kekayaan Intelektual  
u.b.  
Direktur Hak Cipta dan Desain Industri

Anggoro Dasananto  
NIP.196412081991031002

Disclaimer:  
Dalam hal pemohon memberikan keterangan tidak sesuai dengan surat pernyataan, Menteri berwenang untuk mencabut surat pencatatan permohonan.

## SURAT PERNYATAAN

Yang bertanda tangan di bawah ini, pemegang hak cipta:

Nama : Damar Prasetyo, Drs. M.Kom  
Kewarganegaraan : Indonesia  
Alamat : Taman Giwangan Asri I Blok B 12 Rt/Rw. 041/001, Kel. Giwangan Kec.  
Umbulharjo, Kota Yogyakarta, 55163

Dengan ini menyatakan bahwa:

1. Karya Cipta yang saya mohonkan:  
Berupa : Program Komputer  
Berjudul : Sistem Pendukung Keputusan Sumber Daya Perguruan Tinggi (SPK-SDPT)
  - Tidak meniru dan tidak sama secara esensial dengan Karya Cipta milik pihak lain atau obyek kekayaan intelektual lainnya sebagaimana dimaksud dalam Pasal 68 ayat (2);
  - Bukan merupakan Ekspresi Budaya Tradisional sebagaimana dimaksud dalam Pasal 38;
  - Bukan merupakan Ciptaan yang tidak diketahui penciptanya sebagaimana dimaksud dalam Pasal 39;
  - Bukan merupakan hasil karya yang tidak dilindungi Hak Cipta sebagaimana dimaksud dalam Pasal 41 dan 42;
  - Bukan merupakan Ciptaan seni lukis yang berupa logo atau tanda pembeda yang digunakan sebagai merek dalam perdagangan barang/jasa atau digunakan sebagai lambang organisasi, badan usaha, atau badan hukum sebagaimana dimaksud dalam Pasal 65 dan;
  - Bukan merupakan Ciptaan yang melanggar norma agama, norma susila, ketertiban umum, pertahanan dan keamanan negara atau melanggar peraturan perundang-undangan sebagaimana dimaksud dalam Pasal 74 ayat (1) huruf d Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.
2. Sebagai pemohon mempunyai kewajiban untuk menyimpan asli contoh ciptaan yang dimohonkan dan harus memberikan apabila dibutuhkan untuk kepentingan penyelesaian sengketa perdata maupun pidana sesuai dengan ketentuan perundang-undangan.
3. Karya Cipta yang saya mohonkan pada Angka 1 tersebut di atas tidak pernah dan tidak sedang dalam sengketa pidana dan/atau perdata di Pengadilan.
4. Dalam hal ketentuan sebagaimana dimaksud dalam Angka 1 dan Angka 3 tersebut di atas saya / kami langgar, maka saya / kami bersedia secara sukarela bahwa:
  - a. permohonan karya cipta yang saya ajukan dianggap ditarik kembali; atau
  - b. Karya Cipta yang telah terdaftar dalam Daftar Umum Ciptaan Direktorat Hak Cipta, Direktorat Jenderal Hak Kekayaan Intelektual, Kementerian Hukum Dan Hak Asasi Manusia R.I dihapuskan sesuai dengan ketentuan perundang-undangan yang berlaku.
  - c. Dalam hal kepemilikan Hak Cipta yang dimohonkan secara elektronik sedang dalam berperkara dan/atau sedang dalam gugatan di Pengadilan maka status kepemilikan surat pencatatan elektronik tersebut ditanggguhkan menunggu putusan Pengadilan yang berkekuatan hukum tetap.

Demikian Surat pernyataan ini saya/kami buat dengan sebenarnya dan untuk dipergunakan sebagaimana mestinya.

10 Januari 2023



Damar Prasetyo, Drs., M.Kom  
Pemegang Hak Cipta\*

\* Semua pemegang hak cipta agar menandatangani di atas materai.

## **Abstrak Software**

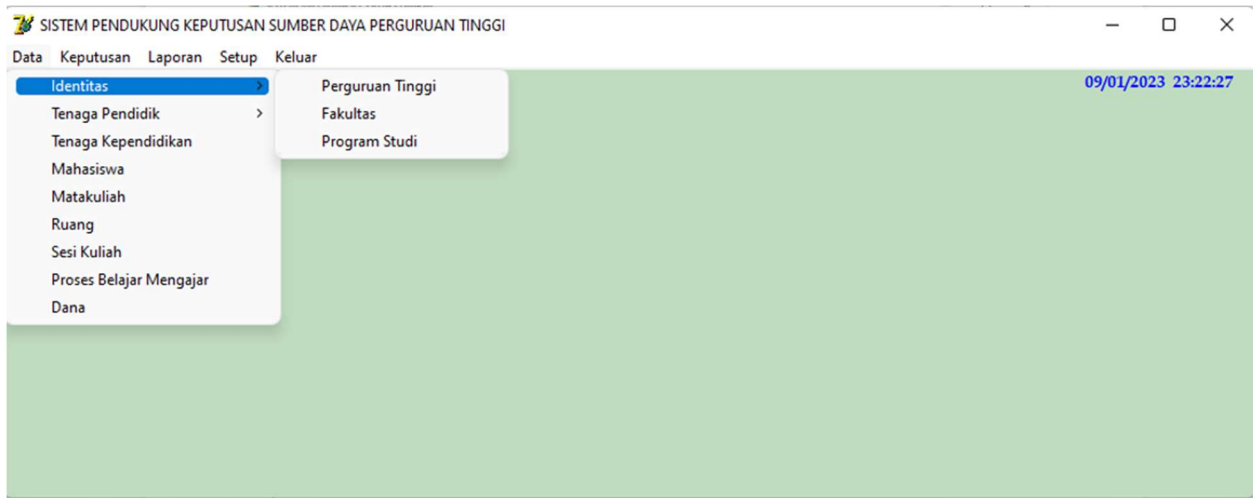
Software sistem pendukung keputusan ini merupakan software yang dapat membantu pimpinan perguruan tinggi maupun yayasan perguruan tinggi swasta untuk memprediksi kebutuhan sumber dayanya. Data yang diperlukan adalah target penjualan, data identitas perguruan tinggi, data identitas fakultas/ jurusan, data identitas program studi, data identitas dosen tetap, data identitas dosen tidak tetap, data identitas mahasiswa/lulusan, data identitas tenaga kependidikan, data ruangan, data sesi, data proses belajar mengajar dan data dana. Data tersebut diproses dengan menggunakan persamaan model matematika, standar/aturan pendidikan tinggi yang berlaku dan algoritma program, akan menghasilkan informasi sumberdaya yang dimiliki perguruan tinggi per tahun akademik. Agar diperoleh beberapa informasi alternatif keputusan dapat menggunakan simulasi Berdasarkan hasil simulasi, beberapa informasi dapat dipilih manajer perguruan tinggi untuk membuat strategi dan perencanaan kebutuhan sumber daya yang akan datang.

**Kata kunci: prediksi, sumber daya, yang akan datang**

SISTEM PENDUKUNG KEPUTUSAN SUMBER DAYA PERGURUAN TINGGI  
(SPK-SDPT)

Oleh  
Damar Prasetyo

Universitas Teknologi Yogyakarta  
2023



Gambar 1. Tampilan Sub Menu dari Menu Utama Data Induk



Gambar 2. Tampilan Sub Menu dari Menu Utama Simulasi Hasil

### //Form Tampilan Menu Utama

#Potongan Source code Program Utama.

```

program SDPT;
uses
  Forms,
  uMenu in 'uMenu.pas' {frmSDPT},
  uIdPT in 'uIdPT.pas' {frmIdPT},
  uIdFak in 'uIdFak.pas' {frmIdFak},
  udm in 'udm.pas' {dm1: TDataModule},
  uMtkl in 'uMtkl.pas' {frmMtkl},
  uDafProdi in 'uDafProdi.pas' {Form1},
  uPBM in 'uPBM.pas' {frmPBM},
  UDsnTtp in 'UDsnTtp.pas' {frmDsnTtp},
  
```

```

uDsnTTtp in 'uDsnTTtp.pas' {frmDsnTTtp},
uTPend in 'uTPend.pas' {frmTPend},
uMhs in 'uMhs.pas' {frmMhs},
uRuang in 'uRuang.pas' {frmRuang},
uAtDsn in 'uAtDsn.pas' {frmAtDsn},
uProg in 'uProg.pas' {frmProg},
uSPK in 'uSPK.pas' {frmKeputusan},
uDana in 'uDana.pas' {frmDana};
{$R *.res}
begin
Application.Initialize;
Application.CreateForm(TfrmSDPT, frmSDPT);
Application.CreateForm(TfrmIdPT, frmIdPT);
Application.CreateForm(TfrmIdFak, frmIdFak);
Application.CreateForm(Tdm1, dm1);
Application.CreateForm(TfrmMtkl, frmMtkl);
Application.CreateForm(TForm1, Form1);
Application.CreateForm(TfrmKeputusan, frmKeputusan);
Application.CreateForm(TfrmDsnTtp, frmDsnTtp);
Application.CreateForm(TfrmDsnTTtp, frmDsnTTtp);
Application.CreateForm(TfrmTPend, frmTPend);
Application.CreateForm(TfrmMhs, frmMhs);
Application.CreateForm(TfrmRuang, frmRuang);
Application.CreateForm(TfrmProg, frmProg);
Application.CreateForm(TfrmAtDsn, frmAtDsn);
Application.CreateForm(TfrmPBM, frmPBM);
Application.CreateForm(TfrmDana, frmDana);
Application.CreateForm(TfrmSesi, frmSesi);
Application.Run;
end.

```

#Potongan Source code Program Tampilan Menu Utama gambar 1 dan 2 .

```

uses
Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
Dialogs, Menus, StdCtrls, ExtCtrls;

```

```

type
TfrmSDPT = class(TForm)
MenuUtama: TMainMenu;
File1: TMenuItem;
IdentitasPT1: TMenuItem;
mPTinggi: TMenuItem;
mFak: TMenuItem;
mProg: TMenuItem;
DataDosen1: TMenuItem;
mTngKpend: TMenuItem;
mMhs: TMenuItem;
mMtkl: TMenuItem;
mRuang: TMenuItem;
SesiKuliah1: TMenuItem;

```

```

Dana1: TMenuItem;
Setup1: TMenuItem;
Aturan1: TMenuItem;
AturanTenagaKependidikan1: TMenuItem;
Keputusan1: TMenuItem;
Keluar1: TMenuItem;
Simulasi1: TMenuItem;
Laporan2: TMenuItem;
DaftarProdi1: TMenuItem;
DaftarFakultas1: TMenuItem;
Timer1: TTimer;
ITgl: TLabel;
DsnTetap: TMenuItem;
DsnTtTp: TMenuItem;
ProseBelajarMengajar1: TMenuItem;
procedure Keluar1Click(Sender: TObject);
procedure mPTinggtiClick(Sender: TObject);
procedure mFakClick(Sender: TObject);
procedure mProgClick(Sender: TObject);
procedure mMtklClick(Sender: TObject);
procedure Timer1Timer(Sender: TObject);
procedure DsnTetapClick(Sender: TObject);
procedure DsnTtTpClick(Sender: TObject);
procedure mTngKpendClick(Sender: TObject);
procedure mMhsClick(Sender: TObject);
procedure mRuangClick(Sender: TObject);
procedure Aturan1Click(Sender: TObject);
procedure SesiKuliah1Click(Sender: TObject);
procedure ProseBelajarMengajar1Click(Sender: TObject);
procedure Simulasi1Click(Sender: TObject);
procedure Dana1Click(Sender: TObject);

private
  { Private declarations }
public
  { Public declarations }
end;

var
  frmSDPT: TfrmSDPT;

implementation

uses uIdPT, uIdFak, uMtkl, UDsnTtp, uDsnTtTp, uTPend, uMhs, uRuang, uProg,
  uAtDsn, uSesi, uPBM, uSPK, uDana;

{$R *.dfm}

procedure TfrmSDPT.mPTinggtiClick(Sender: TObject);
begin
  frmIdPT.Show;

```

```
end;

procedure TfrmSDPT.mFakClick(Sender: TObject);
begin
    frmIdFak.Show;
end;

procedure TfrmSDPT.mProgClick(Sender: TObject);
begin
    frmProg.Show;
end;

procedure TfrmSDPT.mMtklClick(Sender: TObject);
begin
    frmMtkl.Show;
end;

procedure TfrmSDPT.Timer1Timer(Sender: TObject);
begin
    ITgl.Caption:= formatdatetime('dd/mm/yyyy',now)+' '+
    formatdatetime('hh:nn:ss',now);
    ITgl.Refresh;
end;

procedure TfrmSDPT.Keluar1Click(Sender: TObject);
begin
    Application.Terminate;
end;

procedure TfrmSDPT.DsnTetapClick(Sender: TObject);
begin
    frmDsnTtp.Show;
end;

procedure TfrmSDPT.DsnTTtpClick(Sender: TObject);
begin
    frmDsnTTtp.Show;
end;

procedure TfrmSDPT.mTngKpendClick(Sender: TObject);
begin
    frmTPend.Show;
end;

procedure TfrmSDPT.mMhsClick(Sender: TObject);
begin
    frmMhs.Show;
end;

procedure TfrmSDPT.mRuangClick(Sender: TObject);
begin
```



```
    frmRuang.Show;  
end;
```

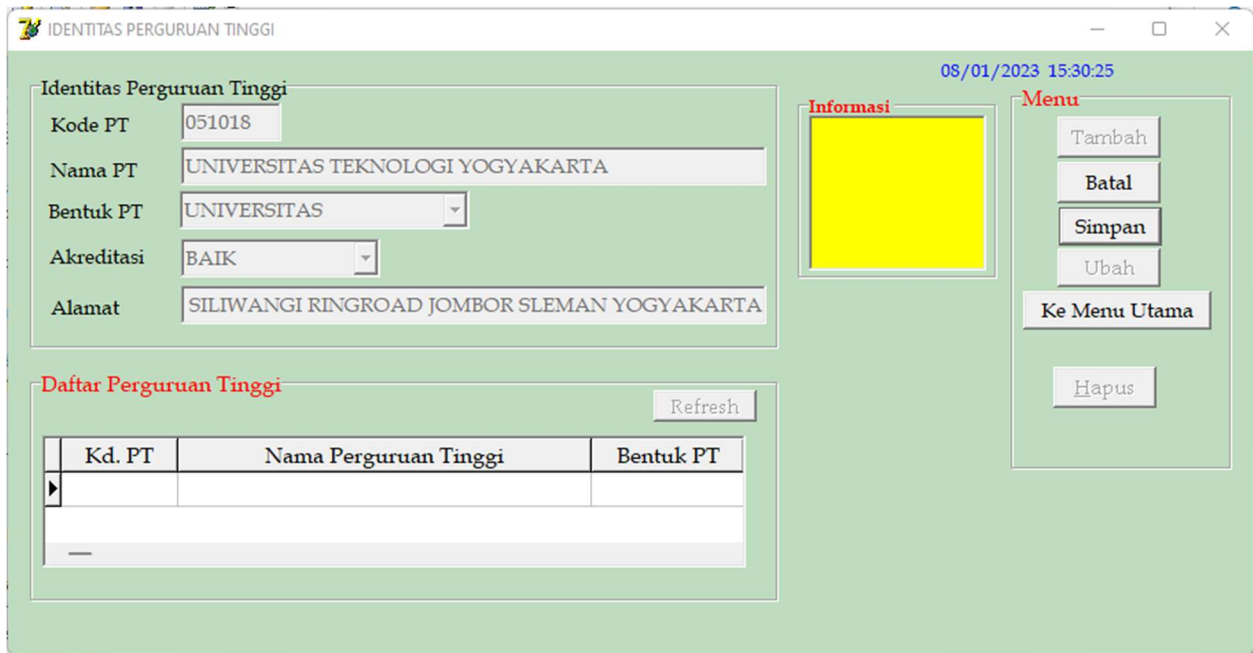
```
procedure TfrmSDPT.Aturan1Click(Sender: TObject);  
begin  
    frmAtDsn.Show;  
end;
```

```
procedure TfrmSDPT.SesiKuliah1Click(Sender: TObject);  
begin  
    frmSesi.Show;  
end;
```

```
procedure TfrmSDPT.ProseBelajarMengajar1Click(Sender: TObject);  
begin  
    frmPBM.Show;  
end;
```

```
procedure TfrmSDPT.Simulasi1Click(Sender: TObject);  
begin  
    frmKeputusan.Show;  
end;
```

```
procedure TfrmSDPT.Dana1Click(Sender: TObject);  
begin  
    frmDana.Show;  
end;  
end.
```



Gambar 3. Tampilan Sub Menu Identitas Perguruan Tinggi

### #Form Tampilan Sub Menu Identitas Perguruan Tinggi

```
unit uldPT;
interface
uses
```

```
Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
Dialogs, StdCtrls, ExtCtrls, Grids, DBGrids, DB, ADODB;
```

```
type
```

```
TfrmIdPT = class(TForm)
  GroupBox1: TGroupBox;
  Label1: TLabel;
  eKdPT: TEdit;
  eNmPT: TEdit;
  Label2: TLabel;
  Label5: TLabel;
  cbJnsPT: TComboBox;
  Label3: TLabel;
  cbAkred: TComboBox;
  Label4: TLabel;
  eAlmt: TEdit;
  GroupBox2: TGroupBox;
  btnSimpan: TButton;
  btnUbah: TButton;
  btnKmb1: TButton;
  btnTambah: TButton;
  btnBatal: TButton;
  btnHps: TButton;
  GroupBox3: TGroupBox;
  gridPT: TDBGrid;
```

```

Timer1: TTimer;
ITgl: TLabel;
DataSource1: TDataSource;
btnRefresh: TButton;
ADOTable1: TADOTable;
GroupBox4: TGroupBox;
mInfo: TMemo;
procedure btnKmb1Click(Sender: TObject);
procedure FormCreate(Sender: TObject);
procedure eKdPTKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure eNmPTKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure cbJnsPTKeyPress(Sender: TObject; var Key: Char);
procedure cbAkredKeyPress(Sender: TObject; var Key: Char);
procedure eAlmtKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure btnSimpanClick(Sender: TObject);
procedure Timer1Timer(Sender: TObject);
procedure btnRefreshClick(Sender: TObject);
procedure btnTambahClick(Sender: TObject);
procedure btnBatalClick(Sender: TObject);
procedure FormShow(Sender: TObject);
private
  { Private declarations }
public
  { Public declarations }
end;
var
  frmIdPT: TfrmIdPT;

implementation
  uses udm;
  {$R *.dfm}

procedure TfrmIdPT.FormCreate(Sender: TObject);
begin
  eKdPT.Enabled:=False;
  eNmPT.Enabled:=False;
  cbJnsPT.Enabled:=False;
  cbAkred.Enabled:=False;
  eAlmt.Enabled:=False;
  eKdPT.Color:=clMenu;
  eNmPT.Color:=clMenu;
  cbJnsPT.Color:=clMenu;
  cbAkred.Color:=clMenu;
  eAlmt.Color:=clMenu;
  eKdPT.Clear;
  eNmPT.Clear;
  cbJnsPT.Text:="";
  cbAkred.Text:="";

```

```
eAlmt.Clear;
btnTambah.Enabled:=True;
btnBatal.Enabled:=False;
btnSimpan.Enabled:=False;
btnUbah.Enabled:=False;
btnHps.Enabled:=False;
btnKmbL.Enabled:=True;
btnRefresh.Enabled:=True;
end;
```

```
procedure TfrmIdPT.eKdPTKeyDown(Sender: TObject; var Key: Word;
Shift: TShiftState);
begin
if (Key=VK_Return)and(eKdPT.Text<>") then
begin
eNmPT.Color:=clWhite;
eNmPT.Enabled:=True;
eNmPT.SetFocus;
eKdPT.Color:=clMenu;
eKdPT.Enabled:=False;
end
else
begin
eKdPT.Text;
btnKmbL.Enabled:=False;
end;
end;
```

```
procedure TfrmIdPT.eNmPTKeyDown(Sender: TObject; var Key: Word;
Shift: TShiftState);
begin
if (Key=VK_Return)and(eNmPT.Text<>") then
begin
cbJnsPT.Color:=clWhite;
cbJnsPT.Enabled:=True;
cbJnsPT.SetFocus;
cbJnsPT.Text:=";
eNmPT.Color:=clMenu;
eNmPT.Enabled:=False;
end
else
eNmPT.Text;
end;
```

```
procedure TfrmIdPT.cbJnsPTKeyPress(Sender: TObject; var Key: Char);
begin
if (Key=chr(13)) then
begin
cbJnsPT.Color:=clMenu;
cbJnsPT.Enabled:=False;
cbAkred.Enabled:=True;
```

```
    cbAkred.SetFocus;
    cbAkred.Color:=clWhite;
    cbAkred.Text:="";
    Exit;
end;
end;
```

```
procedure TfrmIdPT.cbAkredKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
        begin
            cbAkred.Color:=clMenu;
            cbAkred.Enabled:=False;
            eAlmt.Enabled:=True;
            eAlmt.SetFocus;
            eAlmt.Color:=clWhite;
            eAlmt.Text:="";
            Exit;
        end;
end;
```

```
procedure TfrmIdPT.eAlmtKeyDown(Sender: TObject; var Key: Word;
    Shift: TShiftState);
begin
    if (Key=VK_Return)and(eAlmt.Text<>") then
        begin
            eAlmt.Color:=clMenu;
            eAlmt.Enabled:=False;
            btnSimpan.Enabled:=True;
            btnSimpan.SetFocus;
            btnKmbL.Enabled:=True;
        end
    else
        eAlmt.Text;
end;
```

```
procedure TfrmIdPT.btnTambahClick(Sender: TObject);
begin
    eKdPT.Color:=clWhite;
    eKdPT.Enabled:=True;
    eKdPT.SetFocus;
    btnTambah.Enabled:=False;
    btnBatal.Enabled:=True;
    btnKmbL.Enabled:=False;
    btnRefresh.Enabled:=False;
    gridPT.Enabled:=False;
end;
```

```
procedure TfrmIdPT.btnBatalClick(Sender: TObject);
begin
```

```
FormCreate(Sender);  
end;
```

```
procedure TfrmIdPT.btnSimpanClick(Sender: TObject);  
begin  
  try dm1.ADOConnection1.BeginTrans;  
    with dm1.ADOQuery1 do  
      begin  
        Active:=False;  
        Close;  
        SQL.Clear;  
        SQL.Text:='insert into tIdPT(kd_PT,nm_PT,jns_PT,akred,almt) values(''  
+QuotedStr(eKdPT.Text)+'',''+QuotedStr(eNmPT.Text)+'',''+  
  QuotedStr(cbJnsPT.Text)+'',''+QuotedStr(cbAkred.Text)+'',''+QuotedStr(eAlmt.Text)+'')';  
        ExecSQL;  
      end;  
    dm1.ADOConnection1.CommitTrans;  
    ShowMessage('Data Tersimpan');  
  except dm1.ADOConnection1.RollbackTrans;  
    ShowMessage('Gagal Simpan');  
  end;  
  btnSimpan.Enabled:=False;  
  FormCreate(Sender);  
  btnRefresh.Enabled:=True;  
end;
```

```
procedure TfrmIdPT.btnRefreshClick(Sender: TObject);  
begin  
  dm1.ADOQuery1.Active:=False;  
  dm1.ADOQuery1.SQL.Text:='SELECT * FROM tIdPT order by nm_PT ASC';  
  dm1.ADOQuery1.Active:=True;  
  ADOTable1.Active:=False;  
  ADOTable1.Active:=True;  
  gridPT.Enabled:=True;  
end;
```

```
procedure TfrmIdPT.FormShow(Sender: TObject);  
begin  
  btnRefreshClick(Sender);  
end;
```

```
procedure TfrmIdPT.Timer1Timer(Sender: TObject);  
begin  
  ITgl.Caption:= formatdatetime('dd/mm/yyyy',now)+' '+  
  formatdatetime('hh:nn:ss',now);  
  ITgl.Refresh;  
end;
```

```
procedure TfrmIdPT.btnKmb1Click(Sender: TObject);  
begin  
  frmIdPT.Close;
```

end;  
end.

The screenshot shows a software application window titled "IDENTITAS FAKULTAS/JURUSAN" with a timestamp of "08/01/2023 15:37:24". The interface is divided into several sections:

- Isian Identitas Fakultas/Jurusan:** A form with three input fields: "Kode Fakultas" (value: 10), "Nama Fakultas" (value: PROGRAM DIPLOMA), and "Alamat" (value: JL PROF SOEPOMO NO. 21 YOGYAKARTA).
- Informasi:** A yellow rectangular area, likely a placeholder for an image or logo.
- Daftar Fakultas:** A table with columns "Kd Fak.", "Nama Fakultas", and "Alamat". It contains three rows of data and a "Refresh" button to its right.
- Menu:** A vertical stack of buttons: "Tambah", "Batal", "Simpan", "Ubah", "Ke Menu Utama", and "Hapus".

Kd Fak.	Nama Fakultas	Alamat
22	EKONOMI	JL. SILIWANGI RINGROAD JOME
23	HUMANIORA	JL. GLAGAH SARI 63 YOGYAKAI
24	PASCA SARJANA	JL. SILIWANGI RINGROAD JOME

Gambar 4. Tampilan Sub Menu Identitas Fakultas/Jurusan/UPPS

### #Form Tampilan Sub Menu Identitas Fakultas/Juruan/UPPS

```
unit uldFak;  
interface  
uses  
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
  Dialogs, StdCtrls, Buttons, Grids, DBGrids, DB, ADODB, ExtCtrls;  
type  
TfrmIdFak = class(TForm)  
  GroupBox1: TGroupBox;  
  Label1: TLabel;  
  Label2: TLabel;  
  eNmFak: TEdit;  
  Label4: TLabel;  
  eAlmt: TEdit;  
  GroupBox2: TGroupBox;  
  btnSimpan: TButton;  
  btnUbah: TButton;  
  btnHps: TButton;  
  btnKmb1: TButton;  
  GroupBox3: TGroupBox;  
  DataSource1: TDataSource;  
  ADOTable1: TADOTable;  
  gridFak: TDBGrid;  
  btnRefresh: TButton;  
  btnTambah: TButton;  
  btnBatal: TButton;  
  eKdFak: TEdit;  
  Timer1: TTimer;
```

```
ITgl: TLabel;
GroupBox4: TGroupBox;
mInfo: TMemo;
procedure btnKmb1Click(Sender: TObject);
procedure FormCreate(Sender: TObject);
procedure eNmFakKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure eAlmtKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure btnSimpanClick(Sender: TObject);
procedure btnRefreshClick(Sender: TObject);
procedure eKdFakKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure btnTambahClick(Sender: TObject);
procedure btnBatalClick(Sender: TObject);
procedure Timer1Timer(Sender: TObject);
procedure FormShow(Sender: TObject);
private
  { Private declarations }
public
  { Public declarations }
end;
```

```
var
  frmIdFak: TfrmIdFak;
```

```
implementation
```

```
uses udm;
```

```
{ $R *.dfm }
```

```
procedure TfrmIdFak.FormCreate(Sender: TObject);
begin
  eKdFak.Enabled:=False;
  eNmFak.Enabled:=False;
  eAlmt.Enabled:=False;
  eKdFak.Color:=clMenu;
  eNmFak.Color:=clMenu;
  eAlmt.Color:=clMenu;
  eKdFak.Clear;
  eNmFak.Clear;
  eAlmt.Clear;
  btnTambah.Enabled:=True;
  btnBatal.Enabled:=False;
  btnSimpan.Enabled:=False;
  btnUbah.Enabled:=False;
  btnHps.Enabled:=False;
  btnKmb1.Enabled:=True;
  btnRefresh.Enabled:=True;
```



end;

```
procedure TfrmIdFak.eKdFakKeyDown(Sender: TObject; var Key: Word;  
  Shift: TShiftState);
```

```
begin
```

```
  if (Key=VK_Return)and(eKdFak.Text<>") then
```

```
    begin
```

```
      eNmFak.Enabled:=True;
```

```
      eNmFak.SetFocus;
```

```
      eNmFak.Color:=clWhite;
```

```
      eKdFak.Enabled:=False;
```

```
      eKdFak.Color:=clMenu;
```

```
    end
```

```
  else
```

```
    eKdFak.Text;
```

```
end;
```

```
procedure TfrmIdFak.eNmFakKeyDown(Sender: TObject; var Key: Word;  
  Shift: TShiftState);
```

```
begin
```

```
  if (Key=VK_Return)and(eNmFak.Text<>") then
```

```
    begin
```

```
      eAlmt.Enabled:=True;
```

```
      eAlmt.SetFocus;
```

```
      eAlmt.Color:=clWhite;
```

```
      eNmFak.Enabled:=False;
```

```
      eNmFak.Color:=clMenu;
```

```
    end
```

```
  else
```

```
    eNmFak.Text;
```

```
end;
```

```
procedure TfrmIdFak.eAlmtKeyDown(Sender: TObject; var Key: Word;  
  Shift: TShiftState);
```

```
begin
```

```
  if (Key=VK_Return)and(eAlmt.Text<>") then
```

```
    begin
```

```
      eAlmt.Enabled:=False;
```

```
      eAlmt.Color:=clMenu;
```

```
      btnSimpan.Enabled:=True;
```

```
      btnSimpan.SetFocus;
```

```
    end
```

```
  else
```

```
    eAlmt.Text;
```

```
end;
```

```
procedure TfrmIdFak.btnTambahClick(Sender: TObject);
```

```
begin
```

```
  eKdFak.Color:=clWhite;
```

```
  eKdFak.Enabled:=True;
```

```
  eKdFak.SetFocus;
```

```
    btnTambah.Enabled:=False;
    btnBatal.Enabled:=True;
    btnKmb1.Enabled:=False;
    btnRefresh.Enabled:=False;
    gridFak.Enabled:=False;
end;
```

```
procedure TfrmIdFak.btnBatalClick(Sender: TObject);
begin
    FormCreate(Sender);
end;
```

```
procedure TfrmIdFak.btnSimpanClick(Sender: TObject);
begin
    try dm1.ADOConnection1.BeginTrans;
    with dm1.ADOQuery1 do
    begin
        Active:=False;
        Close;
        SQL.Clear;
        SQL.Text:='insert into tFak(kd_Fak,nm_Fak,almt) values('
        +QuotedStr(eKdFak.Text)+'+'+QuotedStr(eNmFak.Text)+'+'+
        QuotedStr(eAlmt.Text)+')';
        ExecSQL;
    end;
    dm1.ADOConnection1.CommitTrans;
    ShowMessage('Data Tersimpan');
    except dm1.ADOConnection1.RollbackTrans;
        ShowMessage('Gagal Simpan');
    end;
    btnSimpan.Enabled:=False;
    FormCreate(Sender);
    btnRefresh.Enabled:=True;
end;
```

```
{dbGrid Show refresh}
procedure TfrmIdFak.btnRefreshClick(Sender: TObject);
begin
    dm1.ADOQuery1.Active:=False;
    dm1.ADOQuery1.SQL.Text:='SELECT * FROM tFak order by nm_fak ASC';
    dm1.ADOQuery1.Active:=True;
    ADOTable1.Active:=False;
    ADOTable1.Active:=True;
    gridFak.Enabled:=True;
end;
```

```
procedure TfrmIdFak.FormShow(Sender: TObject);
begin
    btnRefreshClick(Sender);
end;
```

```

procedure TfrmIdFak.Timer1Timer(Sender: TObject);
begin
  ITgl.Caption:= formatdatetime('dd/mm/yyyy',now)+' '+
  formatdatetime('hh:nn:ss',now);
  ITgl.Refresh;
end;

```

```

procedure TfrmIdFak.btnKmb1Click(Sender: TObject);
begin
  frmIdFak.Close;
end;
end.

```

PROGRAM STUDI

08/01/2023 15:53:50

**Isian Data Identitas Program Studi**

Kode Prodi: 311

Nama Prodi: SISTEM INFORMASI

Program: DIPLOMA 3

Peringkat Akred.: A

Rumpun Ilmu:  Ilmu Alam  Ilmu Sosial

Bidang Ilmu: Ilmu Komputer

UPPS/Fak/Jur: PROGRAM DIPLOMA

**Daftar Program Studi**

Kd. Prodi	Nama Program Studi	Akreditasi	Fakultas/UPPS
111	AKUNTANSI	A	22
112	MANAJEMEN	BAIK SEKAL	22
123	INFORMATIKA	UNGGUL	11
210	SASTRA INGGRIS	A	23
211	BAHASA INGGRIS	A	23

**Informasi**

**Menu**

Tambah

Batal

Simpan

Ubah

Ke Menu Utama

Hapus

Gambar 5. Tampilan Sub Menu Identitas Program Studi

### #Form Tampilan Sub Menu Identitas Program Studi

```

unit uProg;
interface
uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  Dialogs, StdCtrls, ExtCtrls, Grids, DBGrids, DB, ADODB;
type
  TfrmProg = class(TForm)
    GroupBox1: TGroupBox;

```

Label1: TLabel;  
Label2: TLabel;  
Label3: TLabel;  
Label4: TLabel;  
Label6: TLabel;  
eNmPrd: TEdit;  
cbAkred: TComboBox;  
cbUpps: TComboBox;  
eKdPrd: TEdit;  
cbProg: TComboBox;  
Timer1: TTimer;  
ITgl: TLabel;  
GroupBox2: TGroupBox;  
gridProdi: TDBGrid;  
btnRefresh: TButton;  
GroupBox3: TGroupBox;  
btnSimpan: TButton;  
btnUbah: TButton;  
btnKmb1: TButton;  
btnHps: TButton;  
btnTambah: TButton;  
btnBatal: TButton;  
DataSource1: TDataSource;  
ADOTable1: TADOTable;  
GroupBox4: TGroupBox;  
mInfo: TMemo;  
Label5: TLabel;  
cbIlmu: TComboBox;  
Label7: TLabel;  
rbRmAlm: TRadioButton;  
rbRmSos: TRadioButton;

procedure Timer1Timer(Sender: TObject);  
procedure eKdPrdKeyDown(Sender: TObject; var Key: Word;  
  Shift: TShiftState);  
procedure eNmPrdKeyDown(Sender: TObject; var Key: Word;  
  Shift: TShiftState);  
procedure cbProgKeyPress(Sender: TObject; var Key: Char);  
procedure cbAkredKeyPress(Sender: TObject; var Key: Char);  
procedure btnRefreshClick(Sender: TObject);  
procedure FormShow(Sender: TObject);  
procedure btnTambahClick(Sender: TObject);  
procedure btnBatalClick(Sender: TObject);  
procedure btnSimpanClick(Sender: TObject);  
procedure btnKmb1Click(Sender: TObject);  
procedure cbUppsKeyPress(Sender: TObject; var Key: Char);  
procedure FormCreate(Sender: TObject);  
procedure cbIlmuKeyPress(Sender: TObject; var Key: Char);  
procedure rbRmAlmClick(Sender: TObject);  
procedure rbRmSosClick(Sender: TObject);  
procedure gridProdiTitleClick(Column: TColumn);

```
private
  { Private declarations }
public
  { Public declarations }
end;
```

```
var
  frmProg   : TfrmProg;
  kupps,kilmu : String[10];
  rumpun    : String[15];
implementation
uses udm;
```

```
{ $R *.dfm }
```

```
procedure TfrmProg.FormCreate(Sender: TObject);
begin
```

```
  eKdPrd.Enabled:=False;
  eNmPrd.Enabled:=False;
  cbProg.Enabled:=False;
  cbAkred.Enabled:=False;
  rbRmAlm.Checked:=True;
  rbRmAlm.Enabled:=False;
  rbRmSos.Enabled:=False;
  cbIlmu.Enabled:=False;
  cbUpps.Enabled:=False;
```

```
  eKdPrd.Color:=clMenu;
  eNmPrd.Color:=clMenu;
  cbProg.Color:=clMenu;
  cbAkred.Color:=clMenu;
  cbIlmu.Color:=clMenu;
  cbUpps.Color:=clMenu;
```

```
  eKdPrd.Clear;
  eNmPrd.Clear;
  cbProg.Text:="";
  cbAkred.Text:="";
  cbIlmu.Text:="";
  cbUpps.Text:="";
```

```
  btnTambah.Enabled:=True;
  btnBatal.Enabled:=False;
  btnSimpan.Enabled:=False;
  btnUbah.Enabled:=False;
  btnKmb1.Enabled:=True;
  with dm1.ADOQuery1 do
  begin
    Active:=false;
    Close;
    SQL.Clear;
```

```

    SQL.Text:='select * from tFak';
    Active:=true;
end;
dm1.ADOQuery1.First;
while not dm1.ADOQuery1.Eof do
begin
    cbUpps.Items.Add(dm1.ADOQuery1.FieldByName('nm_Fak').AsString);
    dm1.ADOQuery1.Next;
end;
with dm1.ADOQuery1 do
begin
    Active:=false;
    Close;
    SQL.Clear;
    SQL.Text:='select * from tIlmu';
    Active:=true;
end;
dm1.ADOQuery1.First;
while not dm1.ADOQuery1.Eof do
begin
    cbIlmu.Items.Add(dm1.ADOQuery1.FieldByName('nm_Ilmu').AsString);
    dm1.ADOQuery1.Next;
end;
end;

```

```

procedure TfrmProg.Timer1Timer(Sender: TObject);
begin
    ITgl.Caption:= formatdatetime('dd/mm/yyyy',now)+' '+
    formatdatetime('hh:nn:ss',now);
    ITgl.Refresh;
end;

```

```

procedure TfrmProg.eKdPrdKeyDown(Sender: TObject; var Key: Word;
    Shift: TShiftState);
begin
    if (Key=VK_Return)and(eKdPrd.Text<>") then
    begin
        eNmPrd.Color:=clWhite;
        eNmPrd.Enabled:=True;
        eNmPrd.SetFocus;
        eKdPrd.Color:=clMenu;
        eKdPrd.Enabled:=False;
    end
    else
        eKdPrd.Text;
end;

```

```

procedure TfrmProg.eNmPrdKeyDown(Sender: TObject; var Key: Word;
    Shift: TShiftState);
begin
    if (Key=VK_Return)and(eNmPrd.Text<>") then

```

```

begin
  cbProg.Color:=clWhite;
  cbProg.Enabled:=True;
  cbProg.SetFocus;
  cbProg.Text:="";
  eNmPrd.Color:=clMenu;
  eNmPrd.Enabled:=False;
end
else
  eNmPrd.Text;
end;

procedure TfrmProg.cbProgKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    cbProg.Color:=clMenu;
    cbProg.Enabled:=False;
    cbAkred.Color:=clWhite;
    cbAkred.Enabled:=True;
    cbAkred.SetFocus;
    cbAkred.Text:="";
    Exit;
  end;
end;

procedure TfrmProg.cbAkredKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    cbAkred.Color:=clMenu;
    cbAkred.Enabled:=False;
    rbRmAlm.Font.Color:=clBlue;
    rbRmSos.Font.Color:=clBlue;
    rbRmAlm.Enabled:=True;
    rbRmSos.Enabled:=True;
    Exit;
  end;
end;

procedure TfrmProg.rbRmAlmClick(Sender: TObject);
begin
  rumpun:='ILMU ALAM';
  cbIlmu.Enabled:=True;
  cbIlmu.Color:=clWhite;
  cbIlmu.Text:="";
end;

procedure TfrmProg.rbRmSosClick(Sender: TObject);
begin

```

```
rumpun:='ILMU SOSIAL';  
cbIlmu.Enabled:=True;  
cbIlmu.Color:=clWhite;  
cbIlmu.Text:='';
```

```
end;
```

```
procedure TfrmProg.cbIlmuKeyPress(Sender: TObject; var Key: Char);  
begin  
  if (Key=chr(13)) then  
  begin  
    with dm1.ADOQuery1 do  
    begin  
      Active:=false;  
      Close;  
      SQL.Clear;  
      SQL.Text:='select * from tIlmu where nm_ilmu='+QuotedStr(cbIlmu.Text);  
      Active:=true;  
    end;  
    kilmu:=dm1.ADOQuery1['kd_ilmu'];  
    cbIlmu.Color:=clMenu;  
    cbIlmu.Enabled:=False;  
    cbUpps.Color:=clWhite;  
    cbUpps.Enabled:=True;  
    cbUpps.SetFocus;  
    exit;  
  end;  
end;
```

```
procedure TfrmProg.cbUppsKeyPress(Sender: TObject; var Key: Char);  
begin  
  if (Key=chr(13)) then  
  begin  
    with dm1.ADOQuery1 do  
    begin  
      Active:=false;  
      Close;  
      SQL.Clear;  
      SQL.Text:='select * from tFak where nm_fak='+QuotedStr(cbUpps.Text);  
      Active:=true;  
    end;  
    kupps:=dm1.ADOQuery1['kd_fak'];  
    cbUpps.Color:=clMenu;  
    cbUpps.Enabled:=False;  
    btnSimpan.Enabled:=True;  
    btnSimpan.SetFocus;  
    exit;  
  end;  
end;
```

```
procedure TfrmProg.btnRefreshClick(Sender: TObject);
```



```

begin
  dm1.ADOQuery1.Active:=False;
  dm1.ADOQuery1.SQL.Text:='SELECT * FROM tProdi order by nm_prd ASC';
  dm1.ADOQuery1.Active:=True;

  ADOTable1.Active:=False;
  TCustomADODataset(gridProdi.DataSource.DataSet).Sort:='DESC nm_prd';
  ADOTable1.Sort:='Desc nm_prd';
  ADOTable1.Active:=True;
  gridProdi.Enabled:=True;
end;

procedure TfrmProg.FormShow(Sender: TObject);
begin
  btnRefreshClick(Sender);
end;

procedure TfrmProg.btnTambahClick(Sender: TObject);
begin
  eKdPrd.Color:=clWhite;
  eKdPrd.Enabled:=True;
  eKdPrd.SetFocus;
  btnTambah.Enabled:=False;
  btnBatal.Enabled:=True;
  btnKmb1.Enabled:=False;
  btnRefresh.Enabled:=False;
  gridProdi.Enabled:=False;
end;

procedure TfrmProg.btnBatalClick(Sender: TObject);
begin
  FormCreate(Sender);
end;

procedure TfrmProg.btnSimpanClick(Sender: TObject);
begin
  try dm1.ADOConnection1.BeginTrans;
  with dm1.ADOQuery1 do
  begin
    Active:=False;
    Close;
    SQL.Clear;
    SQL.Text:='insert into tProdi(kd_Prd,nm_Prd,prog,Akrd,rmpn,kd_ilmu,kd_fak) values('
    +QuotedStr(eKdPrd.Text)+'+'+QuotedStr(eNmPrd.Text)+'+'+
    QuotedStr(cbProg.Text)+'+'+QuotedStr(cbAkred.Text)+'+'+
    QuotedStr(rumpun)+'+'+kilmu+'+'+kupps+')';
    ExecSQL;
  end;
  dm1.ADOConnection1.CommitTrans;
  ShowMessage('Data Tersimpan');
  except dm1.ADOConnection1.RollbackTrans;

```

```
ShowMessage('Gagal Simpan');
end;
btnSimpan.Enabled:=False;
FormCreate(Sender);
btnRefresh.Enabled:=True;
end;
```

```
procedure TfrmProg.btnKmbClick(Sender: TObject);
begin
    frmProg.Close;
end;
```

```
procedure TfrmProg.gridProdiTitleClick(Column: TColumn);
{$J+}
const PreviousColumnIndex : integer= 1;
{$J-}
begin
    { if gridProdi.DataSource.DataSet is TCustomADODataset then
    with TCustomADODataset(gridProdi.DataSource.DataSet) do
    begin
        try
            gridProdi.Columns[PreviousColumnIndex].title.Font.Style :=
            gridProdi.Columns[PreviousColumnIndex].title.Font.Style - [fsBold];
        except
            end;
            Column.title.Font.Style :=
            Column.title.Font.Style + [fsBold];
            PreviousColumnIndex := Column.Index;
            if (Pos(Column.Field.FieldName, Sort) = 1)
            and (Pos(+&#039; DESC&#039;;, Sort)= 0) then
                Sort := Column.Field.FieldName + &#039; DESC&#039;;
            else
                Sort := Column.Field.FieldName + &#039; ASC&#039;;
            end;}
end;
end.
```

**Identitas Dosen Tetap**

NIDN/NUP: 0517016502      NIK/NIP: 110889001

Nama Dosen: DAMAR PRASETYO

Homebase [Prodi]: SISTEM INFORMASI

Pendidikan Akhir: MAGISTER(S2)      Tgl. SK. awal dosen: 01/07/2008

Bidang Ilmu: Ilmu Komputer

Jabatan Akademik: ASISTEN AHLI      Status: DOSEN TETAP

**Memiliki Sertifikat**

Sertifikat Pendidik [Serdos]

Sertifikat Profesi setara     6 KKNI     8 KKNI     9 KKNI

**Daftar Dosen Tetap**

NIK	Nama	Home Base	Pend. Akhir	Bid. Ilmu	JAJA	Status
11100201020	ANIS FITRIANA	111	MAGISTER(S2)	726	LEKTOR	DOSEN T
11240203026	PUTRI NUR ALIFAH	111	MAGISTER(S2)	630	ASISTEN AHLI	DOSEN T
11181101017	GIGIH ANANG PRACOYO	111	DOKTOR (S3)	726	LEKTOR	DOSEN T
11200801018	HADIYATUL JANNAH	111	MAGISTER(S2)	726	ASISTEN AHLI	DOSEN T
11130901019	LUQMAN DAMAR SANTOSA	111	MAGISTER(S2)	726	ASISTEN AHLI	DOSEN T
11020300015	RYAN MAULANA	123	MAGISTER(S2)	123	LEKTOR	DOSEN T

Gambar 6. Tampilan Sub Menu Identitas Dosen Tetap

### #Form Tampilan Sub Menu Identitas Dosen Tetap

unit UDsnTtp;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, Grids, DBGrids, StdCtrls, DB, ADODB, ComCtrls;

type

```
TfrmDsnTtp = class(TForm)
  GroupBox1: TGroupBox;
  Label1: TLabel;
  eNidn: TEdit;
  Label2: TLabel;
  eNmDsn: TEdit;
  Label6: TLabel;
  cbPend: TComboBox;
  Label3: TLabel;
  cbJafa: TComboBox;
  Label4: TLabel;
  cbBidIlmu: TComboBox;
  Label5: TLabel;
  eNik: TEdit;
```

```
GroupBox3: TGroupBox;
btnSimpan: TButton;
btnUbah: TButton;
btnKmb1: TButton;
btnHps: TButton;
btnTambah: TButton;
btnBatal: TButton;
GroupBox2: TGroupBox;
gridDsnTtp: TDBGrid;
btnRefresh: TButton;
DataSource1: TDataSource;
ADOTable1: TADOTable;
GroupBox4: TGroupBox;
mInfo: TMemo;
Label9: TLabel;
cbHome: TComboBox;
Label8: TLabel;
eStts: TEdit;
Label10: TLabel;
cbTglSk: TDateTimePicker;
GroupBox5: TGroupBox;
cbx1: TCheckBox;
cbx2: TCheckBox;
rb6: TRadioButton;
rb8: TRadioButton;
rb9: TRadioButton;
procedure btnKmb1Click(Sender: TObject);
procedure FormCreate(Sender: TObject);
procedure FormShow(Sender: TObject);
procedure btnTambahClick(Sender: TObject);
procedure cbJafaKeyPress(Sender: TObject; var Key: Char);
procedure eNidnKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure eNikKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure eNmDsnKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure cbPendKeyPress(Sender: TObject; var Key: Char);
procedure btnSimpanClick(Sender: TObject);
procedure btnRefreshClick(Sender: TObject);
procedure btnBatalClick(Sender: TObject);
procedure cbBidIlmuKeyPress(Sender: TObject; var Key: Char);
procedure cbHomeKeyPress(Sender: TObject; var Key: Char);
procedure mInfoKeyPress(Sender: TObject; var Key: Char);

procedure cbTglSkKeyPress(Sender: TObject; var Key: Char);
procedure cbx1Click(Sender: TObject);
procedure cbx2Click(Sender: TObject);
procedure rb6Click(Sender: TObject);
procedure rb8Click(Sender: TObject);
procedure rb9Click(Sender: TObject);
```

```

private
  { Private declarations }
public
  { Public declarations }
end;

var
  frmDsnTtp: TfrmDsnTtp;
  ilmu,khome,kcbx1,kcbx2,krbkkni,home : String[10];
  cekserdos,cekprfs : String[5];
  tglsk      : TDateTime;

implementation

uses udm;

{$R *.dfm}

procedure TfrmDsnTtp.FormCreate(Sender: TObject);
begin
  eNidn.Enabled:=False;
  eNik.Enabled:=False;
  eNmDsn.Enabled:=False;
  cbHome.Enabled:=False;
  cbPend.Enabled:=False;
  cbTglSk.Enabled:=False;
  cbJafa.Enabled:=False;
  cbBidIlmu.Enabled:=False;
  eStts.Enabled:=False;
  cbx1.Enabled:=False;
  cbx2.Enabled:=False;
  rb6.Enabled:=False;
  rb8.Enabled:=False;
  rb9.Enabled:=False;
  mInfo.Enabled:=False;
  eNidn.Color:=clMenu;
  eNik.Color:=clMenu;
  eNmDsn.Color:=clMenu;
  cbHome.Color:=clMenu;
  cbPend.Color:=clMenu;
  cbTglSk.Color:=clMenu;
  cbJafa.Color:=clMenu;
  cbBidIlmu.Color:=clMenu;
  eStts.Color:=clMenu;
  cbx1.Color:=clMenu;
  cbx2.Color:=clMenu;
  rb6.Color:=clMenu;
  rb8.Color:=clMenu;
  rb9.Color:=clMenu;

```

```

eNidn.Clear;
eNik.Clear;
eNmDsn.Clear;
cbHome.Text:="";
cbPend.Text:="";
cbJafa.Text:="";
cbBidIlmu.Text:="";
mInfo.Lines.Clear;
eStts.Clear;
cbx1.Checked:=False;
cbx2.Checked:=False;
rb6.Checked:=True;
btnTambah.Enabled:=True;
btnBatal.Enabled:=False;
btnSimpan.Enabled:=False;
btnUbah.Enabled:=False;
btnHps.Enabled:=False;
btnKmbL.Enabled:=True;
btnRefresh.Enabled:=True;
mInfo.Lines.Add('Klik Tambah untuk menambah data dosen tetap');
end;

procedure TfrmDsnTtp.eNidnKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
begin
  if (Key=VK_Return)and(eNidn.Text<>") then
  begin
    eNIK.Color:=clWhite;
    eNIK.Enabled:=True;
    eNIK.SetFocus;
    eNidn.Color:=clMenu;
    eNidn.Enabled:=False;
  end
  else
    eNidn.Text;
end;

procedure TfrmDsnTtp.eNikKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
begin
  if (Key=VK_Return)and(eNik.Text<>") then
  begin
    eNmDsn.Color:=clWhite;
    eNmDsn.Enabled:=True;
    eNmDsn.SetFocus;
    eNik.Color:=clMenu;
    eNik.Enabled:=False;
  end
  else
    eNik.Text;
end;

```

end;

```
procedure TfrmDsnTtp.eNmDsnKeyDown(Sender: TObject; var Key: Word;  
  Shift: TShiftState);
```

```
begin
```

```
  if (Key=VK_Return)and(eNmDsn.Text<>") then
```

```
  begin
```

```
    cbHome.Color:=clWhite;
```

```
    cbHome.Enabled:=True;
```

```
    cbHome.SetFocus;
```

```
    with dm1.ADOQuery1 do
```

```
    begin
```

```
      Active:=false;
```

```
      Close;
```

```
      SQL.Clear;
```

```
      SQL.Text:='select * from tProdi';
```

```
      Active:=true;
```

```
    end;
```

```
    dm1.ADOQuery1.First;
```

```
    while not dm1.ADOQuery1.Eof do
```

```
    begin
```

```
      cbHome.Items.Add(dm1.ADOQuery1.FieldByName('nm_prd').AsString);
```

```
      dm1.ADOQuery1.Next;
```

```
    end;
```

```
    cbHome.ItemIndex:=0;
```

```
    mInfo.Lines.Clear;
```

```
    mInfo.Lines.Add('Tekan Tombol Panah Atas Bawah atau Klik');
```

```
    eNmDsn.Color:=clMenu;
```

```
    eNmDsn.Enabled:=False;
```

```
  end
```

```
  else
```

```
    eNmDsn.Text;
```

```
end;
```

```
procedure TfrmDsnTtp.cbHomeKeyPress(Sender: TObject; var Key: Char);
```

```
begin
```

```
  if (Key=chr(13)) then
```

```
  begin
```

```
    with dm1.ADOQuery1 do
```

```
    begin
```

```
      Active:=false;
```

```
      Close;
```

```
      SQL.Clear;
```

```
      SQL.Text:='select * from tProdi where nm_prd='+QuotedStr(cbHome.Text);
```

```
      Active:=true;
```

```
    end;
```

```
    khome:=dm1.ADOQuery1['kd_prd'];
```

```
    cbHome.Color:=clMenu;
```

```
    cbHome.Enabled:=False;
```

```
    cbPend.Enabled:=True;
```

```
    cbPend.Color:=clWhite;
```

```
    cbPend.SetFocus;
    cbPend.ItemIndex:=0;
    exit;
end;
end;
```

```
procedure TfrmDsnTtp.cbPendKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        cbPend.Color:=clMenu;
        cbPend.Enabled:=False;
        cbTglSk.Color:=clWhite;
        cbTglSk.Enabled:=True;
        cbTglSk.SetFocus;
        Exit;
    end;
end;
```

```
procedure TfrmDsnTtp.cbTglSkKeyPress(Sender: TObject; var Key: Char);
begin
    tglsk:=cbTglSk.Date;
    cbTglSk.Enabled:=False;
    cbTglSk.Color:=clMenu;
    cbBidIlmu.Color:=clWhite;
    with dm1.ADOQuery1 do
    begin
        Active:=false;
        Close;
        SQL.Clear;
        SQL.Text:='select * from tllmu';
        Active:=true;
    end;
    dm1.ADOQuery1.First;
    while not dm1.ADOQuery1.Eof do
    begin
        cbBidIlmu.Items.Add(dm1.ADOQuery1.FieldName('nm_Ilmu').AsString);
        dm1.ADOQuery1.Next;
    end;
    cbBidIlmu.Enabled:=True;
    cbBidIlmu.SetFocus;
    cbBidIlmu.Text:='';
    cbBidIlmu.ItemIndex:=0
end;
```

```
procedure TfrmDsnTtp.cbBidIlmuKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        with dm1.ADOQuery1 do
        begin
```



```

Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tllmu where nm_ilmu='+QuotedStr(cbBidIlmu.Text);
Active:=true;
end;
kilmu:=dm1.ADOQuery1['kd_ilmu'];
cbBidIlmu.Color:=clMenu;
cbBidIlmu.Enabled:=False;
cbJafa.Enabled:=True;
cbJafa.Color:=clWhite;
cbJafa.SetFocus;
if cbJafa.ItemIndex=-1 then cbJafa.ItemIndex:=0;
Exit;
end;
end;

```

```

procedure TfrmDsnTtp.cbJafaKeyPress(Sender: TObject; var Key: Char);
begin
if (Key=chr(13)) then
begin
cbJafa.Color:=clMenu;
cbJafa.Enabled:=False;
if cbPend.Text='DIPLOMA 3' then
eStts.Text:='INSTRUKTUR TETAP'
else
eStts.Text:='DOSEN TETAP';
cbx1.Enabled:=True;
cbx2.Enabled:=True;
cbx1.Color:=clWhite;
cbx2.Color:=clWhite;
kcbx1:='TIDAK ADA';
kcbx2:='TIDAK ADA';
krbkni:='TIDAK ADA';
btnSimpan.Enabled:=True;
btnSimpan.SetFocus;
Exit;
end;
end;

```

```

procedure TfrmDsnTtp.cbx1Click(Sender: TObject);
begin
if cbx1.Checked=True then
kcbx1:='ADA'
else
kcbx1:='TIDAK ADA';
end;

```

```

procedure TfrmDsnTtp.cbx2Click(Sender: TObject);
begin
if cbx2.Checked=True then

```

```

begin
  kcbx2:='ADA';
  rb6.Checked:=True;
  if rb6.Checked=True then krbkni:='6 KKNI';
  rb6.Enabled:=True;
  rb8.Enabled:=True;
  rb9.Enabled:=True;
end;
if cbx2.Checked=False then
begin
  kcbx2:='TIDAK ADA';
  krbkni:='TIDAK ADA';
  rb6.Checked:=True;
  rb6.Enabled:=False;
  rb8.Enabled:=False;
  rb9.Enabled:=False;
end;
end;

procedure TfrmDsnTtp.rb6Click(Sender: TObject);
begin
  if rb6.Checked=True then krbkni:='6 KKNI';
end;

procedure TfrmDsnTtp.rb8Click(Sender: TObject);
begin
  if rb8.Checked=True then krbkni:='8 KKNI';
end;

procedure TfrmDsnTtp.rb9Click(Sender: TObject);
begin
  if rb9.Checked=True then krbkni:='9 KKNI';
end;

procedure TfrmDsnTtp.btnTambahClick(Sender: TObject);
begin
  FormCreate(Sender);
  eNIDN.Color:=clWhite;
  eNIDN.Enabled:=True;
  eNIDN.SetFocus;

  btnTambah.Enabled:=False;
  btnBatal.Enabled:=True;
  btnKmb1.Enabled:=False;
  btnRefresh.Enabled:=False;
  gridDsnTtp.Enabled:=False;
end;

procedure TfrmDsnTtp.btnBatalClick(Sender: TObject);
begin
  FormCreate(Sender);

```

```
end;
```

```
procedure TfrmDsnTtp.btnSimpanClick(Sender: TObject);
begin
  try dm1.ADOConnection1.BeginTrans;
  with dm1.ADOQuery1 do
  begin
    Active:=False;
    Close;
    SQL.Clear;
    SQL.Text:='insert into tDsnT(Nidn,nik,nm_dsn,kd_prd,pen_akhir,jafa,kd_ilmu,'
    +'status,tgl_sk,serdos,serpro,kkni) values('
    +QuotedStr(eNidn.Text)+'+'+QuotedStr(eNik.Text)+'+'+
    QuotedStr(eNmDsn.Text)+'+'+khome+'+'+QuotedStr(cbPend.Text)+'+'+
    QuotedStr(cbJafa.Text)+'+'+kilmu+'+'+QuotedStr(eStts.Text)+'+'+
    QuotedStr(DateToStr(tglstk))+'+'+QuotedStr(kcbx1)+'+'+QuotedStr(kcbx2)+'+'+
    QuotedStr(krbkkni)+'+';
    ExecSQL;
  end;
  dm1.ADOConnection1.CommitTrans;
  ShowMessage('Data Tersimpan');
  except dm1.ADOConnection1.RollbackTrans;
  ShowMessage('Gagal Simpan');
  end;
  btnSimpan.Enabled:=False;
  FormCreate(Sender);
  btnRefresh.Enabled:=True;
end;
```

```
procedure TfrmDsnTtp.btnRefreshClick(Sender: TObject);
begin
  dm1.ADOQuery1.Active:=False;
  dm1.ADOQuery1.SQL.Text:='select * from tDsnT order by nm_dsn ASC';
  dm1.ADOQuery1.Active:=True;
  ADOTable1.Active:=False;
  ADOTable1.Active:=True;
  gridDsnTtp.Enabled:=True;
end;
```

```
procedure TfrmDsnTtp.FormShow(Sender: TObject);
begin
  btnRefreshClick(Sender);
end;
```

```
procedure TfrmDsnTtp.mInfoKeyPress(Sender: TObject; var Key: Char);
begin
  key:=#0;
end;
```

```
procedure TfrmDsnTtp.btnKmb1Click(Sender: TObject);
begin
```

```

frmDsnTtp.Close;
end;
end.

```

No. Ident.	Nama Dosen	Pendidikan	JAJA	Status
100201	FITRI DWI ASTUTI	MAGISTER(S2)	LEKTOR	DOSEN TIDAK TETA
100101	EIRINA SULUH KUMALASARI	MAGISTER(S2)	LEKTOR	DOSEN TIDAK TETA

Gambar 7 Tampilan Sub Menu Identitas Dosen Tidak Tetap

### #Form Tampilan Sub Menu Identitas Dosen Tidak Tetap

```

unit uDsnTTtp;
interface
uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  Dialogs, StdCtrls, Grids, DBGrids, DB, ADODB;
type
  TfrmDsnTTtp = class(TForm)
    GroupBox1: TGroupBox;
    Label1: TLabel;
    Label2: TLabel;
    Label6: TLabel;
    Label3: TLabel;
    Label4: TLabel;
    Label5: TLabel;
    eNoId: TEdit;
    eNmDsn: TEdit;
    cbPend: TComboBox;
    cbJafa: TComboBox;
    cbBidIlmu: TComboBox;
    eNidn: TEdit;

```

```

GroupBox3: TGroupBox;
btnSimpan: TButton;
btnUbah: TButton;
btnKmb1: TButton;
btnHps: TButton;
btnTambah: TButton;
btnBatal: TButton;
DataSource1: TDataSource;
ADOTable1: TADOTable;
Label8: TLabel;
eStts: TEdit;
GroupBox4: TGroupBox;
mInfo: TMemo;
GroupBox5: TGroupBox;
cbx1: TCheckBox;
cbx2: TCheckBox;
rb6: TRadioButton;
rb8: TRadioButton;
rb9: TRadioButton;
GroupBox2: TGroupBox;
gridDsnTT: TDBGrid;
btnRefresh: TButton;
procedure btnKmb1Click(Sender: TObject);
procedure FormCreate(Sender: TObject);
procedure btnTambahClick(Sender: TObject);
procedure eNoIdKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure eNidnKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure eNmDsnKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure cbPendKeyPress(Sender: TObject; var Key: Char);
procedure cbJafaKeyPress(Sender: TObject; var Key: Char);
procedure btnBatalClick(Sender: TObject);
procedure btnSimpanClick(Sender: TObject);
procedure btnRefreshClick(Sender: TObject);
procedure FormShow(Sender: TObject);
procedure cbBidIlmuKeyPress(Sender: TObject; var Key: Char);
private
  { Private declarations }
public
  { Public declarations }
end;
var
  frmDsnTTtp : TfrmDsnTTtp;
  kilmu      : String[10];
implementation
uses udm;
{$R *.dfm}

procedure TfrmDsnTTtp.FormCreate(Sender: TObject);

```

```

begin
  eNoId.Enabled:=False;
  eNidn.Enabled:=False;
  eNmDsn.Enabled:=False;
  cbPend.Enabled:=False;
  cbJafa.Enabled:=False;
  cbBidIlmu.Enabled:=False;
  eStts.Enabled:=False;
  eNoId.Color:=clMenu;
  eNidn.Color:=clMenu;
  eNmDsn.Color:=clMenu;
  cbPend.Color:=clMenu;
  cbJafa.Color:=clMenu;
  cbBidIlmu.Color:=clMenu;
  eStts.Color:=clMenu;
  eNoId.Clear;
  eNidn.Clear;
  eNmDsn.Clear;
  cbPend.Text:="";
  cbJafa.Text:="";
  cbBidIlmu.Text:="";
  eStts.Clear;

  btnTambah.Enabled:=True;
  btnBatal.Enabled:=False;
  btnSimpan.Enabled:=False;
  btnUbah.Enabled:=False;
  btnHps.Enabled:=False;
  btnKmb1.Enabled:=True;
  btnRefresh.Enabled:=True;
  with dm1.ADOQuery1 do
  begin
    Active:=false;
    Close;
    SQL.Clear;
    SQL.Text:='select * from tllmu';
    Active:=true;
  end;
  dm1.ADOQuery1.First;
  while not dm1.ADOQuery1.Eof do
  begin
    cbBidIlmu.Items.Add(dm1.ADOQuery1.FieldName('nm_Ilmu').AsString);
    dm1.ADOQuery1.Next;
  end;
end;

procedure TfrmDsnTTtp.btnTambahClick(Sender: TObject);
begin
  eNoId.Color:=clWhite;
  eNoId.Enabled:=True;
  eNoId.SetFocus;

```

```
    btnTambah.Enabled:=False;  
    btnBatal.Enabled:=True;  
    btnKmbL.Enabled:=False;  
    btnRefresh.Enabled:=False;  
    gridDsnTT.Enabled:=False;  
end;
```

```
procedure TfrmDsnTTtp.eNoIdKeyDown(Sender: TObject; var Key: Word;  
    Shift: TShiftState);  
begin  
    if (Key=VK_Return)and(eNoId.Text<>") then  
        begin  
            eNidn.Color:=clWhite;  
            eNidn.Enabled:=True;  
            eNidn.SetFocus;  
            eNoId.Color:=clMenu;  
            eNoId.Enabled:=False;  
        end  
    else  
        eNoId.Text;  
end;
```

```
procedure TfrmDsnTTtp.eNidnKeyDown(Sender: TObject; var Key: Word;  
    Shift: TShiftState);  
begin  
    if (Key=VK_Return)and(eNidn.Text<>") then  
        begin  
            eNmDsn.Color:=clWhite;  
            eNmDsn.Enabled:=True;  
            eNmDsn.SetFocus;  
            eNidn.Color:=clMenu;  
            eNidn.Enabled:=False;  
        end  
    else  
        eNidn.Text;  
end;
```

```
procedure TfrmDsnTTtp.eNmDsnKeyDown(Sender: TObject; var Key: Word;  
    Shift: TShiftState);  
begin  
    if (Key=VK_Return)and(eNmDsn.Text<>") then  
        begin  
            cbPend.Color:=clWhite;  
            cbPend.Enabled:=True;  
            cbPend.SetFocus;  
            eNmDsn.Color:=clMenu;  
            eNmDsn.Enabled:=False;  
        end  
    else  
        eNmDsn.Text;
```

```
end;
```

```
procedure TfrmDsnTTtp.cbPendKeyPress(Sender: TObject; var Key: Char);
```

```
begin
```

```
  if (Key=chr(13)) then
```

```
  begin
```

```
    cbPend.Color:=clMenu;
```

```
    cbPend.Enabled:=False;
```

```
    cbBidIlmu.Color:=clWhite;
```

```
    cbBidIlmu.Enabled:=True;
```

```
    cbBidIlmu.SetFocus;
```

```
    cbBidIlmu.Text:='';
```

```
    Exit;
```

```
  end;
```

```
end;
```

```
procedure TfrmDsnTTtp.cbBidIlmuKeyPress(Sender: TObject; var Key: Char);
```

```
begin
```

```
  if (Key=chr(13)) then
```

```
  begin
```

```
    with dm1.ADOQuery1 do
```

```
    begin
```

```
      Active:=false;
```

```
      Close;
```

```
      SQL.Clear;
```

```
      SQL.Text:='select * from tIlmu where nm_ilmu='+QuotedStr(cbBidIlmu.Text);
```

```
      Active:=true;
```

```
    end;
```

```
    kilmu:=dm1.ADOQuery1['kd_ilmu'];
```

```
    cbBidIlmu.Color:=clMenu;
```

```
    cbBidIlmu.Enabled:=False;
```

```
    cbJafa.Enabled:=True;
```

```
    cbJafa.Color:=clWhite;
```

```
    cbJafa.SetFocus;
```

```
    Exit;
```

```
  end;
```

```
end;
```

```
procedure TfrmDsnTTtp.cbJafaKeyPress(Sender: TObject; var Key: Char);
```

```
begin
```

```
  if (Key=chr(13)) then
```

```
  begin
```

```
    cbJafa.Color:=clMenu;
```

```
    cbJafa.Enabled:=False;
```

```
    eStts.Text:='DOSEN TIDAK TETAP';
```

```
    btnSimpan.Enabled:=True;
```

```
    btnSimpan.SetFocus;
```

```
    Exit;
```

```
  end;
```

```
end;
```



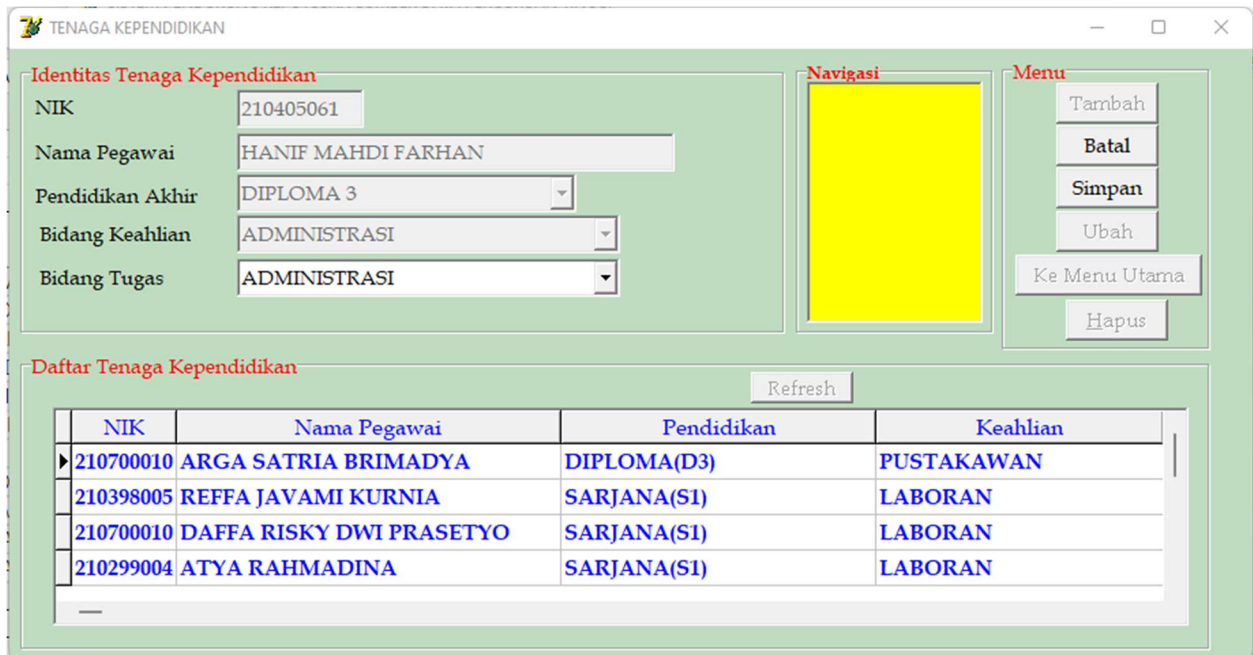
```
procedure TfrmDsnTTtp.btnBatalClick(Sender: TObject);
begin
  FormCreate(Sender);
end;
```

```
procedure TfrmDsnTTtp.btnSimpanClick(Sender: TObject);
begin
  try dm1.ADOConnection1.BeginTrans;
  with dm1.ADOQuery1 do
  begin
    Active:=False;
    Close;
    SQL.Clear;
    SQL.Text:='insert into tDsnTT(no_id,nidn,nm_dsn,pend,kd_ilmu,jafa,status) values('
    +QuotedStr(eNoId.Text)+'+'+QuotedStr(eNidn.Text)+'+'+
    QuotedStr(eNmDsn.Text)+'+'+QuotedStr(cbPend.Text)+'+'+
    kilmu+'+'+QuotedStr(cbJafa.Text)+'+'+QuotedStr(eStts.Text)+'');
    ExecSQL;
  end;
  dm1.ADOConnection1.CommitTrans;
  ShowMessage('Data Tersimpan');
  except dm1.ADOConnection1.RollbackTrans;
  ShowMessage('Gagal Simpan');
  end;
  btnSimpan.Enabled:=False;
  FormCreate(Sender);
  btnRefresh.Enabled:=True;
end;
```

```
procedure TfrmDsnTTtp.btnRefreshClick(Sender: TObject);
begin
  dm1.ADOQuery1.Active:=False;
  dm1.ADOQuery1.SQL.Text:='SELECT * FROM tDsnTT order by nm_dsn ASC';
  dm1.ADOQuery1.Active:=True;
  ADOTable1.Active:=False;
  ADOTable1.Active:=True;
  gridDsnTT.Enabled:=True;
end;
```

```
procedure TfrmDsnTTtp.FormShow(Sender: TObject);
begin
  btnRefreshClick(Sender);
end;
```

```
procedure TfrmDsnTTtp.btnKmb1Click(Sender: TObject);
begin
  frmDsnTTtp.Close;
end;
end.
```



Gambar 8. Tampilan Sub Menu Identitas Tenaga kependidikan

### #Form Tampilan Sub Menu Identitas Tenaga Kependidikan

unit uTPend;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, Grids, DBGrids, StdCtrls, DB, ADODB;

type

TfrmTPend = class(TForm)

  GroupBox1: TGroupBox;

  Label1: TLabel;

  Label2: TLabel;

  Label6: TLabel;

  Label4: TLabel;

  eNik: TEdit;

  eNmPeg: TEdit;

  cbPend: TComboBox;

  cbAhli: TComboBox;

  GroupBox3: TGroupBox;

  btnSimpan: TButton;

  btnUbah: TButton;

  btnKmb1: TButton;

  btnHps: TButton;

  btnTambah: TButton;

  btnBatal: TButton;

  GroupBox2: TGroupBox;

  gridTPend: TDBGrid;

  btnRefresh: TButton;

```

DataSource1: TDataSource;
ADOTable1: TADOTable;
GroupBox4: TGroupBox;
mInfo: TMemo;
Label3: TLabel;
ComboBox1: TComboBox;
procedure btnKmb1Click(Sender: TObject);
procedure FormCreate(Sender: TObject);
procedure btnTambahClick(Sender: TObject);
procedure btnBatalClick(Sender: TObject);
procedure eNikKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure eNmPegKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure cbPendKeyPress(Sender: TObject; var Key: Char);
procedure cbAhliKeyPress(Sender: TObject; var Key: Char);
procedure btnSimpanClick(Sender: TObject);
procedure btnRefreshClick(Sender: TObject);
procedure FormShow(Sender: TObject);
private
  { Private declarations }
public
  { Public declarations }
end;

```

```

var
  frmTPend: TfrmTPend;

```

implementation

```

uses udm;

```

```

{$R *.dfm}

```

```

procedure TfrmTPend.FormCreate(Sender: TObject);
begin
  eNik.Enabled:=False;
  eNmPeg.Enabled:=False;
  cbPend.Enabled:=False;
  cbAhli.Enabled:=False;

  eNik.Color:=clMenu;
  eNmPeg.Color:=clMenu;
  cbPend.Color:=clMenu;
  cbAhli.Color:=clMenu;
  eNik.Clear;
  eNmPeg.Clear;
  cbPend.Text:="";
  cbAhli.Text:="";
  btnTambah.Enabled:=True;
  btnBatal.Enabled:=False;

```

```
    btnSimpan.Enabled:=False;
    btnUbah.Enabled:=False;
    btnHps.Enabled:=False;
    btnKmbL.Enabled:=True;
    btnRefresh.Enabled:=True;
end;
```

```
procedure TfrmTPend.btnTambahClick(Sender: TObject);
begin
    eNik.Color:=clWhite;
    eNik.Enabled:=True;
    eNik.SetFocus;
    btnTambah.Enabled:=False;
    btnBatal.Enabled:=True;
    btnKmbL.Enabled:=False;
    btnRefresh.Enabled:=False;
    gridTPend.Enabled:=False;
end;
```

```
procedure TfrmTPend.btnBatalClick(Sender: TObject);
begin
    FormCreate(Sender);
end;
```

```
procedure TfrmTPend.eNikKeyDown(Sender: TObject; var Key: Word;
    Shift: TShiftState);
begin
    if (Key=VK_Return)and(eNik.Text<>") then
    begin
        eNmPeg.Color:=clWhite;
        eNmPeg.Enabled:=True;
        eNmPeg.SetFocus;
        eNik.Color:=clMenu;
        eNik.Enabled:=False;
    end
    else
        eNik.Text;
end;
```

```
procedure TfrmTPend.eNmPegKeyDown(Sender: TObject; var Key: Word;
    Shift: TShiftState);
begin
    if (Key=VK_Return)and(eNmPeg.Text<>") then
    begin
        cbPend.Color:=clWhite;
        cbPend.Enabled:=True;
        cbPend.SetFocus;
        eNmPeg.Color:=clMenu;
        eNmPeg.Enabled:=False;
    end
```

```
else
  eNmPeg.Text;
end;
```

```
procedure TfrmTPend.cbPendKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    cbAhli.Color:=clWhite;
    cbAhli.Enabled:=True;
    cbAhli.SetFocus;
    cbAhli.Text="";
    cbPend.Color:=clMenu;
    cbPend.Enabled:=False;
    Exit;
  end;
end;
```

```
procedure TfrmTPend.cbAhliKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    cbAhli.Color:=clMenu;
    cbAhli.Enabled:=False;
    btnSimpan.Enabled:=True;
    btnSimpan.SetFocus;
    Exit;
  end;
end;
```

```
procedure TfrmTPend.btnSimpanClick(Sender: TObject);
begin
  try dm1.ADOConnection1.BeginTrans;
  with dm1.ADOQuery1 do
  begin
    Active:=False;
    Close;
    SQL.Clear;
    SQL.Text:='insert into tTPend(nik,nm_peg,pend,ahli) values('
    +QuotedStr(eNik.Text)+'+',+QuotedStr(eNmPeg.Text)+'+',+
    QuotedStr(cbPend.Text)+'+',+QuotedStr(cbAhli.Text)+'');
    ExecSQL;
  end;
  dm1.ADOConnection1.CommitTrans;
  ShowMessage('Data Tersimpan');
  except dm1.ADOConnection1.RollbackTrans;
  ShowMessage('Gagal Simpan');
  end;
  btnSimpan.Enabled:=False;
  FormCreate(Sender);
  btnRefresh.Enabled:=True;
```

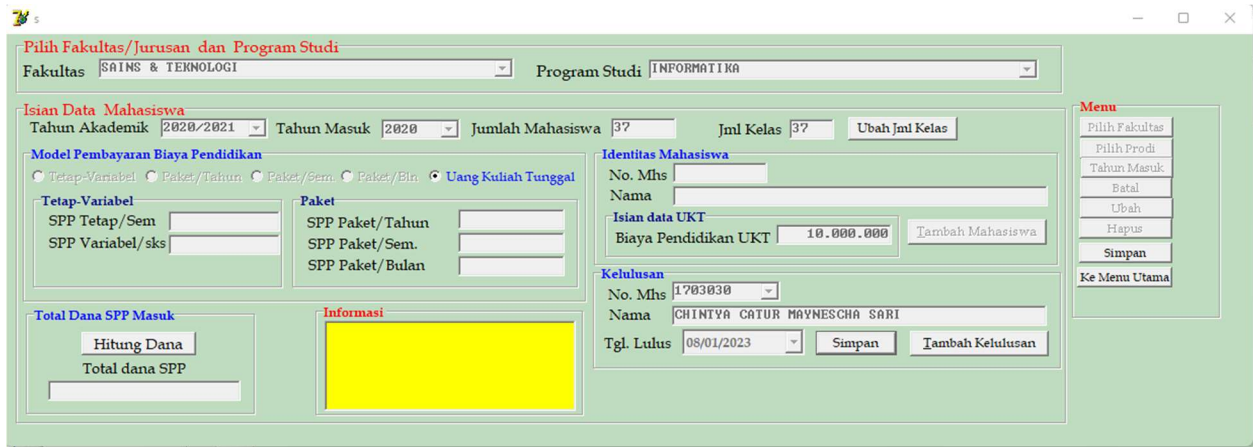
end;

```
procedure TfrmTPend.btnRefreshClick(Sender: TObject);  
begin  
  dm1.ADOQuery1.Active:=False;  
  dm1.ADOQuery1.SQL.Text:='SELECT * FROM tTPend order by nm_peg ASC';  
  dm1.ADOQuery1.Active:=True;  
  ADOTable1.Active:=False;  
  ADOTable1.Active:=True;  
  gridTPend.Enabled:=True;  
end;
```

```
procedure TfrmTPend.FormShow(Sender: TObject);  
begin  
  btnRefreshClick(Sender);  
end;
```

```
procedure TfrmTPend.btnKmb1Click(Sender: TObject);  
begin  
  frmTPend.Close;  
end;  
end.
```

Gambar 9a. Tampilan Sub Menu Identitas Mahasiswa terdiri dari Mahasiswa baru, jenis pembayaran dan nominal SPP



Gambar 9b. Tampilan Sub Menu Identitas Mahasiswa Kelulusan

## #Form Tampilan Sub Menu Identitas Mahasiswa

unit uMhs;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms, Dialogs, StdCtrls, Grids, DBGrids, DB, ADOdb, ComCtrls, Menus;

type

```
TfrmMhs = class(TForm)
  GroupBox1: TGroupBox;
  Label1: TLabel;
  Label2: TLabel;
  eJmlMhs: TEdit;
  cbTM: TComboBox;
  cbTAkd: TComboBox;
  GroupBox5: TGroupBox;
  Label5: TLabel;
  Label4: TLabel;
  cbUpps: TComboBox;
  cbPrd: TComboBox;
  Label7: TLabel;
  Label10: TLabel;
  GroupBox6: TGroupBox;
  rbTV: TRadioButton;
  rbPT: TRadioButton;
  rbPS: TRadioButton;
  rbUKT: TRadioButton;
  eJmlKls: TEdit;
  GroupBox7: TGroupBox;
  Label3: TLabel;
  Label8: TLabel;
  eSppTtp: TEdit;
```

```
eSppVar: TEdit;
GroupBox8: TGroupBox;
Label6: TLabel;
Label11: TLabel;
ePktSem: TEdit;
ePktThn: TEdit;
rbPB: TRadioButton;
Label15: TLabel;
ePktBln: TEdit;
btnUbahJK: TButton;
GroupBox11: TGroupBox;
btnHitDn: TButton;
Label14: TLabel;
eTDn: TEdit;
GroupBox12: TGroupBox;
Label17: TLabel;
Label18: TLabel;
eNmMhsLls: TEdit;
btnLlsn: TButton;
Label19: TLabel;
cbNoMhsLls: TComboBox;
GroupBox9: TGroupBox;
Label12: TLabel;
Label13: TLabel;
eNim: TEdit;
eNmMhs: TEdit;
btnTmbhMhs: TButton;
GroupBox10: TGroupBox;
Label9: TLabel;
eUkt: TEdit;
DataSource1: TDataSource;
ADOTable1: TADOTable;
cbDTPicTglLls: TDateTimePicker;
BtnSmpnLls: TButton;
GroupBox4: TGroupBox;
mInfo: TMemo;
GroupBox2: TGroupBox;
btnSimpan: TButton;
btnKmb1: TButton;
btnPrd: TButton;
btnFak: TButton;
btnTM: TButton;
btnUbah: TButton;
btnBatal: TButton;
btnHps: TButton;
procedure btnKmb1Click(Sender: TObject);
procedure FormCreate(Sender: TObject);
procedure btnTambahClick(Sender: TObject);
procedure btnFakClick(Sender: TObject);
procedure cbTAKdKeyPress(Sender: TObject; var Key: Char);
procedure cbTMKeyPress(Sender: TObject; var Key: Char);
```



```

procedure btnBatalClick(Sender: TObject);
procedure rbTVClick(Sender: TObject);
procedure eJmlKlsKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure rbPTClick(Sender: TObject);
procedure rbUKTClick(Sender: TObject);
procedure rbPSClick(Sender: TObject);
procedure rbPBClick(Sender: TObject);
procedure eNmKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure btnHitDnClick(Sender: TObject);
procedure cbUppsKeyPress(Sender: TObject; var Key: Char);
procedure cbPrdKeyPress(Sender: TObject; var Key: Char);
procedure btnTmbhMhsClick(Sender: TObject);
procedure btnUbahJKClick(Sender: TObject);
procedure eNmMhsKeyPress(Sender: TObject; var Key: Char);
procedure btnLlsnClick(Sender: TObject);
procedure cbNoMhsLlsKeyPress(Sender: TObject; var Key: Char);
procedure cbDTPicTglLlsChange(Sender: TObject);
procedure BtnSmpnLlsClick(Sender: TObject);
procedure btnTmbhLlsnClick(Sender: TObject);
procedure btnTMClick(Sender: TObject);
procedure btnPrdClick(Sender: TObject);
procedure eSppTtpKeyPress(Sender: TObject; var Key: Char);
procedure eSppVarKeyPress(Sender: TObject; var Key: Char);
procedure ePktThnKeyPress(Sender: TObject; var Key: Char);
procedure ePktSemKeyPress(Sender: TObject; var Key: Char);
procedure ePktBlnKeyPress(Sender: TObject; var Key: Char);
procedure eUktKeyPress(Sender: TObject; var Key: Char);

```

```

private
  { Private declarations }
public
  { Public declarations }
end;

```

```

var
  frmMhs                : TfrmMhs;
  kUpps,kPrd,nomhs     : String[10];
  tg                    : String[15];
  jByr                  : String[1];
  ukt,uT,uV,uPT,uPS,uPB,uUkt : real;
  sppt,sppv,sppp,spps,sppb,sppu : real;
  jmhs,jKls,jks        : integer;
  tdana,tsppt,tsppv,tpktt,tpkts,tpktb,tukt : real;

```

```

implementation

```

```

uses udm;

```

{SR \*.dfm}

```
procedure TfrmMhs.FormCreate(Sender: TObject);  
begin
```

```
    cbUpps.Enabled:=True;  
    cbPrd.Enabled:=False;  
    cbTAkd.Enabled:=False;  
    cbTM.Enabled:=False;  
    eJmlMhs.Enabled:=False;  
    eJmlKls.Enabled:=False;  
    rbTV.Enabled:=False;  
    rbPT.Enabled:=False;  
    rbPS.Enabled:=False;  
    rbPB.Enabled:=False;  
    rbUKT.Enabled:=False;  
    eSppTtp.Enabled:=False;  
    eSppVar.Enabled:=False;  
    ePktThn.Enabled:=False;  
    ePktSem.Enabled:=False;  
    ePktBln.Enabled:=False;  
    eNim.Enabled:=False;  
    eNmMhs.Enabled:=False;  
    eUkt.Enabled:=False;  
    eTDn.Enabled:=False;  
    btnTmbhMhs.Enabled:=False;  
    cbNoMhsLLs.Enabled:=False;  
    eNmMhsLLs.Enabled:=False;  
    cbDTPicTglLls.Enabled:=False;  
    btnLlsn.Enabled:=False;  
    cbDTPicTglLls.Enabled:=False;  
    btnSmpnLls.Enabled:=False;
```

```
    cbUpps.Color:=clWhite;  
    cbPrd.Color:=clMenu;  
    cbTAkd.Color:=clMenu;  
    cbTM.Color:=clMenu;  
    cbNoMhsLLs.Color:=clMenu;  
    eJmlMhs.Color:=clMenu;  
    eJmlKls.Color:=clMenu;  
    eSppTtp.Color:=clMenu;  
    eSppVar.Color:=clMenu;  
    ePktThn.Color:=clMenu;  
    ePktSem.Color:=clMenu;  
    ePktBln.Color:=clMenu;  
    eNim.Color:=clMenu;  
    eNmMhs.Color:=clMenu;  
    eUkt.Color:=clMenu;  
    eTDn.Color:=clMenu;  
    eNmMhsLLs.Color:=clMenu;  
    cbDTPicTglLls.Color:=clMenu;
```

```
cbUpps.Clear;
cbPrd.Clear;
cbTAkd.Text:="";
cbTM.Text:="";
cbNoMhsLLs.Text:="";
eJmlMhs.Clear;
eJmlKls.Clear;
eSppTtp.Clear;
eSppVar.Clear;
ePktThn.Clear;
ePktSem.Clear;
ePktBln.Clear;
eNim.Clear;
eNmMhs.Clear;
eUkt.Clear;
eTDn.Clear;
eNmMhsLLs.Clear;
```

```
btnFak.Enabled:=False;
btnPrd.Enabled:=False;
btnTM.Enabled:=False;
btnBatal.Enabled:=False;
btnUbah.Enabled:=False;
btnHps.Enabled:=False;
btnKmbL.Enabled:=True;
btnTmbhMhs.Enabled:=False;
btnHitDn.Enabled:=True;
```

```
btnKmbL.Enabled:=True;
{baca fak}
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select * from tFak';
```

```
  Active:=true;
end;
```

```
while not dm1.ADOQuery1.EOF do
begin
  cbUpps.Items.Add(dm1.ADOQuery1.FieldByName('nm_Fak').AsString);
  dm1.ADOQuery1.Next;
end;
end;
```

```
procedure TfrmMhs.cbUppsKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
```

```

begin

with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tFak where nm_Fak =' + QuotedStr(cbUpps.Text);
Active:=true;
end;
kupps:=dm1.ADOQuery1['kd_Fak'];

cbUpps.Color:=clMenu;
cbUpps.Enabled:=False;

{baca prodi}
cbPrd.Clear;
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tProdi where kd_fak=' + kupps;
Active:=true;
end;
while not dm1.ADOQuery1.Eof do
begin
cbPrd.Items.Add(dm1.ADOQuery1.FieldByName('nm_Prd').AsString);
dm1.ADOQuery1.Next;
end;

cbPrd.Enabled:=True;
cbPrd.SetFocus;
cbPrd.Color:=clWhite;
exit;

end;
end;

procedure TfrmMhs.cbPrdKeyPress(Sender: TObject; var Key: Char);
begin
if (Key=chr(13)) then
begin
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tProdi where nm_Prd =' + QuotedStr(cbPrd.Text);
Active:=true;
end;
end;
end;

```

```

kprd:=dm1.ADOQuery1['kd_Prd'];
cbPrd.Color:=clMenu;
cbPrd.Enabled:=False;
cbTAkd.ItemIndex:=-1;
cbTAkd.Color:=clWhite;
cbTAkd.Enabled:=True;
cbTAkd.SetFocus;
cbTAkd.Text:="";
Exit;
end;
end;

```

```

procedure TfrmMhs.cbTAkdKeyPress(Sender: TObject; var Key: Char);
begin
if (Key=chr(13)) then
begin
cbTakd.Color:=clMenu;
cbTakd.Enabled:=False;
cbTM.Color:=clWhite;
cbTM.Enabled:=True;
cbTM.SetFocus;
cbTM.Text:="";
Exit;
end;
end;

```

```

procedure TfrmMhs.cbTMKeyPress(Sender: TObject; var Key: Char);
begin
if (Key=chr(13)) then
begin
cbTM.Color:=clMenu;
cbTM.Enabled:=False;
{Jml Mhs}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tMhs where ta='+QuotedStr(cbTAkd.Text)+'and tm='
+QuotedStr(cbTM.Text)+'and kd_fak='+kupps+'and kd_prd='+kprd;
Active:=true;
end;
eJmlMhs.Text:=IntToStr(dm1.ADOQuery1.RecordCount);
jMhs:=StrToInt(eJmlMhs.Text);
{Jml Kls}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;

```

```

SQL.Text:='select * from tMhs where ta='+QuotedStr(cbTAkd.Text)+'and tm='
+QuotedStr(cbTM.Text)+'and kd_fak='+kupps+'and kd_prd='+kprd;
Active:=true;
end;
if dm1.ADOQuery1.Eof=True then
jMhs:=0;
eJmlKls.Text:=IntToStr(jMhs);

{Jenis bayar}
if dm1.ADOQuery1.Eof=True then
jByr:=""
else
jByr:=dm1.ADOQuery1['jbyr'];

if jByr<>" then
begin
if jByr='1' then
begin
rbTV.Checked:=True;
rbTV.Enabled:=True;
rbTV.SetFocus;
eSppTtp.Text:=FormatFloat('#,##0',dm1.ADOQuery1['spp_ttp']);
SetWindowLong(eSppTtp.Handle,GWL_STYLE,GetWindowLong(eSppTtp.Handle,
GWL_STYLE) or ES_RIGHT);
eSppVar.Text:=CurrToStr(dm1.ADOQuery1['spp_var']);
end;
if jByr='2' then
begin
rbPT.Checked:=True;
rbPT.Enabled:=True;
rbPT.SetFocus;
ePktThn.Text:=CurrToStr(dm1.ADOQuery1['pkt_thn']);
end;
if jByr='3' then
begin
rbPS.Checked:=True;
rbPS.Enabled:=True;
rbPS.SetFocus;
ePktSem.Text:=CurrToStr(dm1.ADOQuery1['pkt_sem']);
end;
if jByr='4' then
begin
rbPB.Checked:=True;
rbPB.Enabled:=True;
rbPB.SetFocus;
ePktBln.Text:=CurrToStr(dm1.ADOQuery1['pkt_bln']);
end;
if jByr='5' then
begin
rbUKT.Checked:=True;
rbUKT.Enabled:=True;

```

```

rbUKT.SetFocus;
Ukt:=dm1.ADOQuery1['ukt'];
eUkt.Text:=FormatFloat('#,##0',ukt);
SetWindowLong(eUkt.Handle,GWL_STYLE,GetWindowLong(eUkt.Handle,
GWL_STYLE) or ES_RIGHT);
end;
btnUbahJK.Enabled:=True;
btnTmbhMhs.Enabled:=True;
end
else
begin
rbTV.Enabled:=True;
rbPT.Enabled:=True;
rbPS.Enabled:=True;
rbPB.Enabled:=True;
rbUKT.Enabled:=True;
end;
btnLlsm.Enabled:=True;
Exit;
end;
end;

```

```

procedure TfrmMhs.btnUbahJKClick(Sender: TObject);
begin
eJmlKls.Color:=clWhite;
eJmlKls.Enabled:=True;
eJmlKls.SetFocus;
eJmlKls.Clear;
end;

```

```

procedure TfrmMhs.eJmlKlsKeyDown(Sender: TObject; var Key: Word;
Shift: TShiftState);
begin
if (Key=VK_Return)and(eJmlMhs.Text<>") then
begin
eJmlKls.Color:=clMenu;
eJmlKls.Enabled:=False;
end
else
eJmlKls.Text;
end;

```

```

procedure TfrmMhs.rbTVClick(Sender: TObject);
begin
if rbTV.Checked=True then
begin
jByr:='1';
eSppTtp.Color:=clWhite;
eSppTtp.Enabled:=True;
eSppTtp.SetFocus;

```

```

eSppVar.Clear;
eSppVar.Color:=clMenu;
eSppVar.Enabled:=False;
ePktThn.Clear;
ePktThn.Color:=clMenu;
ePktThn.Enabled:=False;
ePktSem.Clear;
ePktSem.Color:=clMenu;
ePktSem.Enabled:=False;
ePktBln.Clear;
ePktBln.Color:=clMenu;
ePktBln.Enabled:=False;
eNim.Clear;
eNim.Color:=clMenu;
eNim.Enabled:=False;
eNmMHs.Clear;
eNmMhs.Color:=clMenu;
eNmMhs.Enabled:=False;
eUKT.Clear;
eUKT.Color:=clMenu;
eUKT.Enabled:=False;
end;
end;

procedure TfrmMhs.rbPTClick(Sender: TObject);
begin
if rbPT.Checked=True then
begin
jByr:='2';
ePktThn.Color:=clWhite;
ePktThn.Enabled:=True;
ePktThn.SetFocus;

eSppTtp.Clear;
eSppTtp.Color:=clMenu;
eSppTtp.Enabled:=False;
eSppVar.Clear;
eSppVar.Color:=clMenu;
eSppVar.Enabled:=False;
ePktSem.Clear;
ePktSem.Color:=clMenu;
ePktSem.Enabled:=False;
ePktBln.Clear;
ePktBln.Color:=clMenu;
ePktBln.Enabled:=False;
eNim.Clear;
eNim.Color:=clMenu;
eNim.Enabled:=False;
eNmMHs.Clear;
eNmMhs.Color:=clMenu;

```



```

    eNmMhs.Enabled:=False;
    eUKT.Clear;
    eUKT.Color:=clMenu;
    eUKT.Enabled:=False;
end;
end;

procedure TfrmMhs.rbPSClick(Sender: TObject);
begin
    if rbPS.Checked=True then
        begin
            jByr:='3';
            ePktSem.Color:=clWhite;
            ePktSem.Enabled:=True;
            ePktSem.SetFocus;

            eSppTtp.Clear;
            eSppTtp.Color:=clMenu;
            eSppTtp.Enabled:=False;
            eSppVar.Clear;
            eSppVar.Color:=clMenu;
            eSppVar.Enabled:=False;
            ePktThn.Clear;
            ePktThn.Color:=clMenu;
            ePktThn.Enabled:=False;
            ePktBln.Clear;
            ePktBln.Color:=clMenu;
            ePktBln.Enabled:=False;
            eNim.Clear;
            eNim.Color:=clMenu;
            eNim.Enabled:=False;
            eNmMhs.Clear;
            eNmMhs.Color:=clMenu;
            eNmMhs.Enabled:=False;
            eUKT.Clear;
            eUKT.Color:=clMenu;
            eUKT.Enabled:=False;
        end;
end;

procedure TfrmMhs.rbPBClick(Sender: TObject);
begin
    if rbPB.Checked=True then
        begin
            jByr:='4';
            ePktBln.Color:=clWhite;
            ePktBln.Enabled:=True;
            ePktBln.SetFocus;
            eSppTtp.Clear;
            eSppTtp.Color:=clMenu;
            eSppTtp.Enabled:=False;
        end;
end;

```

```
eSppVar.Clear;
eSppVar.Color:=clMenu;
eSppVar.Enabled:=False;
ePktThn.Clear;
ePktThn.Color:=clMenu;
ePktThn.Enabled:=False;
ePktSem.Clear;
ePktSem.Color:=clMenu;
ePktSem.Enabled:=False;
eNim.Clear;
eNim.Color:=clMenu;
eNim.Enabled:=False;
eNmMHs.Clear;
eNmMHs.Color:=clMenu;
eNmMHs.Enabled:=False;
eUKT.Clear;
eUKT.Color:=clMenu;
eUKT.Enabled:=False;
end
end;
```

```
procedure TfrmMhs.rbUKTClick(Sender: TObject);
```

```
begin
  if rbUKT.Checked=True then
    begin
      ukt:=1;
      jByr:='5';
      btnTmbhMhs.Enabled:=True;
      btnTmbhMhs.SetFocus;
```

```

      eSppTtp.Clear;
      eSppTtp.Color:=clMenu;
      eSppTtp.Enabled:=False;
      eSppVar.Clear;
      eSppVar.Color:=clMenu;
      eSppVar.Enabled:=False;
      ePktThn.Clear;
      ePktThn.Color:=clMenu;
      ePktThn.Enabled:=False;
      ePktSem.Clear;
      ePktSem.Color:=clMenu;
      ePktSem.Enabled:=False;
      ePktBln.Clear;
      ePktBln.Color:=clMenu;
      ePktBln.Enabled:=False;
      eNmMHs.Clear;
      eNmMHs.Color:=clMenu;
      eNmMHs.Enabled:=False;
      eUKT.Clear;
      eUKT.Color:=clMenu;
      eUKT.Enabled:=False;
```

```

    end;
end;

procedure TfrmMhs.eSppTtpKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        eSppVar.Enabled:=True;
        eSppvar.Color:=clWhite;
        eSppVar.SetFocus;
        eSppTtp.Color:=clMenu;
        eSppTtp.Enabled:=False;
        sppt:=StrToFloat(eSppTtp.Text);
        eSppTtp.Text:=FormatFloat('#,#0',sppt);
        SetWindowLong(eSppTtp.Handle,GWL_STYLE,GetWindowLong(eSppTtp.Handle,
        GWL_STYLE) or ES_RIGHT);
        Exit;
    end;
end;

```

```

procedure TfrmMhs.eSppVarKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        btnTmbhMhs.Enabled:=True;
        btnTmbhMhs.SetFocus;
        eSppVar.Color:=clMenu;
        eSppVar.Enabled:=False;
        sppv:=StrToFloat(eSppVar.Text);
        eSppVar.Text:=FormatFloat('#,#0',sppv);
        SetWindowLong(eSppVar.Handle,GWL_STYLE,GetWindowLong(eSppVar.Handle,
        GWL_STYLE) or ES_RIGHT);
        Exit;
    end;
end;

```

```

procedure TfrmMhs.ePktThnKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        btnTmbhMhs.Enabled:=True;
        btnTmbhMhs.SetFocus;
        ePktThn.Color:=clMenu;
        ePktThn.Enabled:=False;
        sPPP:=StrToFloat(ePktThn.Text);
        ePktThn.Text:=FormatFloat('#,#0',sPPP);
        SetWindowLong(ePktThn.Handle,GWL_STYLE,GetWindowLong(ePktThn.Handle,
        GWL_STYLE) or ES_RIGHT);
        Exit;
    end;
end;

```

```

procedure TfrmMhs.ePktSemKeyPress(Sender: TObject; var Key: Char);
begin
if (Key=chr(13)) then
begin
  btnTmbhMhs.Enabled:=True;
  btnTmbhMhs.SetFocus;
  ePktThn.Color:=clMenu;
  ePktThn.Enabled:=False;
  spps:=StrToFloat(ePktSem.Text);
  ePktSem.Text:=FormatFloat('#,#0',spps);
  SetWindowLong(ePktSem.Handle,GWL_STYLE,GetWindowLong(ePktSem.Handle,
  GWL_STYLE) or ES_RIGHT);
  Exit;
end;
end;

```

```

procedure TfrmMhs.ePktBlnKeyPress(Sender: TObject; var Key: Char);
begin
if (Key=chr(13)) then
begin
  btnTmbhMhs.Enabled:=True;
  btnTmbhMhs.SetFocus;
  ePktBln.Color:=clMenu;
  ePktBln.Enabled:=False;
  sppb:=StrToFloat(ePktBln.Text);
  ePktBln.Text:=FormatFloat('#,#0',sppb);
  SetWindowLong(ePktBln.Handle,GWL_STYLE,GetWindowLong(ePktBln.Handle,
  GWL_STYLE) or ES_RIGHT);
  Exit;
end;
end;

```

```

procedure TfrmMhs.btnTmbhMhsClick(Sender: TObject);
begin
  eNim.Color:=clWhite;
  eNim.Enabled:=True;
  eNim.Clear;
  eNmMhs.Clear;
  eNim.SetFocus;
end;

```

```

procedure TfrmMhs.eNimKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
begin
if (Key=VK_Return)and(eNim.Text<>") then
begin
  eNmMhs.Color:=clWhite;
  eNmMhs.Enabled:=True;
  eNmMhs.SetFocus;
  eNim.Color:=clMenu;

```

```

    eNim.Enabled:=False;
end
else
    eNim.Text;
end;

procedure TfrmMhs.eNmMhsKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
        begin
            eNmMhs.Color:=clMenu;
            eNmMhs.Enabled:=False;
            {simpan}
            try dm1.ADOConnection1.BeginTrans;
                with dm1.ADOQuery1 do
                    begin
                        Active:=False;
                        Close;
                        SQL.Clear;
                        SQL.Text:='insert into tMhs(kd_fak,kd_prd,ta,tm,jml_kls,jbyr,spp_ttp,'
                        +'spp_var,pkt_thn,pkt_sem,pkt_bln,nim,'
                        +'nm_mhs,ukt) values('+kupps+', '+kprd+', '+
                        QuotedStr(cbTAkd.Text)+' '+QuotedStr(cbTM.Text)+' '+
                        QuotedStr(eJmlKls.Text)+' '+jByr+' '+QuotedStr(eSppTtp.Text)+' '+
                        QuotedStr(eSppVar.Text)+' '+QuotedStr(ePktThn.Text)+' '+
                        QuotedStr(ePktSem.Text)+' '+QuotedStr(ePktBln.Text)+' '+
                        QuotedStr(eNim.Text)+' '+QuotedStr(eNmMhs.Text)+' '+
                        QuotedStr(eUkt.Text)+')';
                        ExecSQL;
                    end;
                dm1.ADOConnection1.CommitTrans;
                ShowMessage('Data Tersimpan');
            except dm1.ADOConnection1.RollbackTrans;
                ShowMessage('Gagal Simpan');
            end;
            Exit;
        end;
end;

```

```

procedure TfrmMhs.eUktKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
        begin
            btnTmbhMhs.Enabled:=True;
            btnTmbhMhs.SetFocus;
            eUkt.Color:=clMenu;
            eUkt.Enabled:=False;
            sppu:=StrToFloat(eUkt.Text);
            eUkt.Text:=FormatFloat('#, #0', sppu);
            SetWindowLong(eUkt.Handle, GWL_STYLE, GetWindowLong(eUkt.Handle,
            GWL_STYLE) or ES_RIGHT);
        end;
    end;
end;

```

```

    Exit;
end;
end;

procedure TfrmMhs.btnHitDnClick(Sender: TObject);
begin
    tsppt:=0;tsppv:=0;tpktt:=0;tpkts:=0;tpktb:=0;tukt:=0;
    with dm1.ADOQuery1 do
    begin
        Active:=false;
        Close;
        SQL.Clear;
        SQL.Text:='select sum(sks)as jsks from tMk where kd_prd='+kprd;
        Active:=true;
    end;
    jSks:=dm1.ADOQuery1['jsks'];
    with dm1.ADOQuery1 do
    begin
        Active:=false;
        Close;
        SQL.Clear;
        SQL.Text:='select * from tMhs where ta='+QuotedStr(cbTAkd.Text)+
        'and kd_fak='+kupps+'and kd_prd='+kprd;
        Active:=true;
    end;
    while not dm1.ADOQuery1.Eof do
    begin
        tsppt:=tsppt+StrToFloat(dm1.ADOQuery1['spp_ttp'])*2;
        tsppv:=tsppv+jSks*StrToFloat(dm1.ADOQuery1['spp_var']);
        tpktt:=tpktt+StrToFloat(dm1.ADOQuery1['pkt_thn']);
        tpkts:=tpkts+StrToFloat(dm1.ADOQuery1['pkt_sem'])*2;
        tpktb:=tpktb+StrToFloat(dm1.ADOQuery1['pkt_bln'])*12;
        tukt:=tukt+StrToFloat(dm1.ADOQuery1['ukt']);
        dm1.ADOQuery1.Next;
    end;
    tdana:=tdana+tsppt+tsppv+tpktt+tpkts+tpktb+tukt;
    eTDn.Text:=FloatToStr(tdana);
    eTDn.Text:=FormatFloat('#,##0',tdana);
    SetWindowLong(eTDn.Handle,GWL_STYLE,GetWindowLong(eTDn.Handle,
    GWL_STYLE) or ES_RIGHT);
    jmhs:=StrToInt(ejmlMhs.Text);
end;

{Menu}
procedure TfrmMhs.btnFakClick(Sender: TObject);
begin
    cbUpps.Clear;
    cbPrd.Clear;
    cbTAkd.Text:='';
    cbTM.Text:='';
    eSppTtp.Clear;

```

```

eSppVar.Clear;
ePktThn.Clear;
ePktBln.Clear;
eNim.Clear;
eNmMhs.Clear;
eUkt.Clear;
eTDn.Clear;

cbUpps.Enabled:=True;
cbUpps.Color:=clWhite;
cbUpps.SetFocus;
btnFak.Enabled:=False;
btnBatal.Enabled:=True;
end;

procedure TfrmMhs.btnTMClick(Sender: TObject);
begin
    cbTM.Enabled:=True;
    cbTm.Color:=clWhite;
    cbTM.SetFocus;
end;

procedure TfrmMhs.btnPrdClick(Sender: TObject);
begin
    cbPrd.Enabled:=True;
    cbPrd.Color:=clWhite;
    cbPrd.SetFocus;
end;

procedure TfrmMhs.btnBatalClick(Sender: TObject);
begin
    FormCreate(Sender);
end;

procedure TfrmMhs.btnTambahClick(Sender: TObject);
begin
    cbTM.Color:=clWhite;
    cbTM.Enabled:=True;
    cbTM.SetFocus;

    btnBatal.Enabled:=True;
    btnKmbL.Enabled:=False;
end;

{Isi Lulusan}
procedure TfrmMhs.btnLlsnClick(Sender: TObject);
begin
    btnTmbhMhs.Enabled:=False;
    cbNoMhsLls.Enabled:=True;
    cbNoMhsLls.Color:=clWhite;
    cbNoMhsLls.Text:="";

```

```

cbNoMhsLls.SetFocus;
eNmMHsLls.Clear;
{baca Mhs}
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select * from tMhs where kd_fak='+kupps+'and kd_prd='+kprd;
  Active:=true;
end;
while not dm1.ADOQuery1.Eof do
begin
  cbNoMhsLls.Items.Add(dm1.ADOQuery1.FieldByName('nim').AsString);
  dm1.ADOQuery1.Next;
end;
end;

```

```

procedure TfrmMhs.cbNoMhsLlsKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    with dm1.ADOQuery1 do
    begin
      Active:=false;
      Close;
      SQL.Clear;
      SQL.Text:='select * from tMhs where nim =' + QuotedStr(cbNoMhsLls.Text);
      Active:=true;
    end;
    nomhs:=dm1.ADOQuery1['nim'];
    cbNoMhsLls.Color:=clMenu;
    cbNoMhsLls.Enabled:=False;

    eNmMhsLls.Clear;
    eNmMhsLls.Text:=dm1.ADOQuery1['nm_mhs'];
    cbDTPicTglLls.Enabled:=True;
    cbDTPicTglLls.SetFocus;
    Exit;
  end;
end;

```

```

procedure TfrmMhs.btnTmbhLlsnClick(Sender: TObject);
begin
  cbNoMhsLls.Enabled:=True;
  cbNoMhsLls.Clear;
  cbNoMhsLls.SetFocus;
  btnLlsn.Enabled:=False;
end;

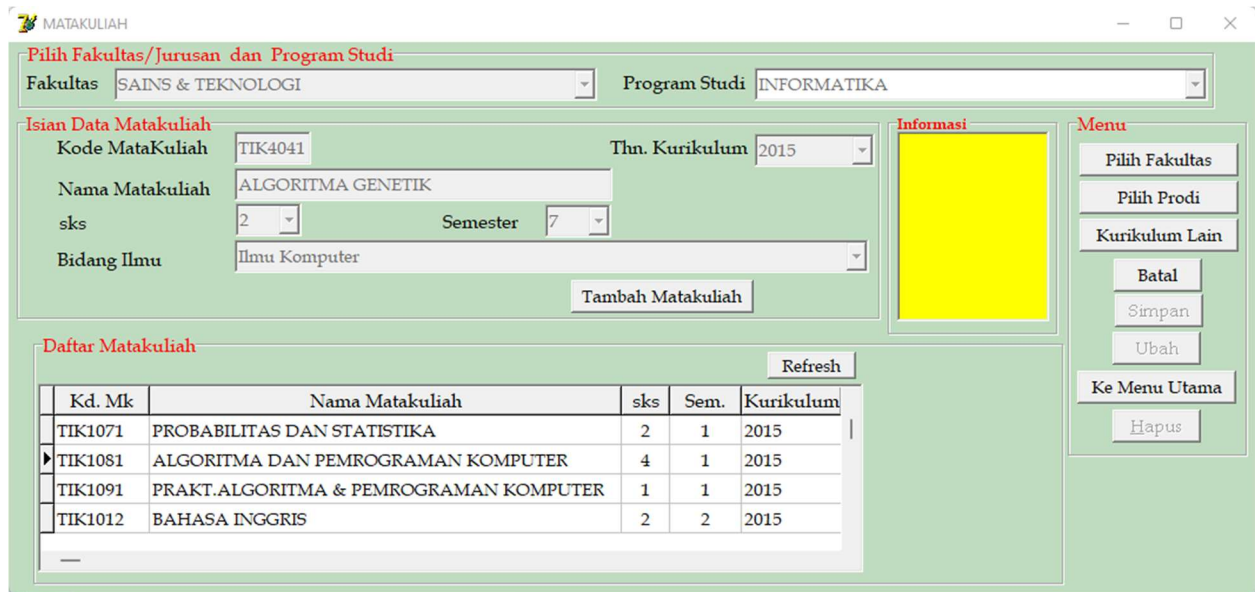
```



```
procedure TfrmMhs.cbDTPicTglLlsChange(Sender: TObject);
begin
    tg:=formatdatetime('dd-mm-yyyy',cbDTPicTglLls.Date);
    cbDTPicTglLls.Enabled:=False;
    btnSmpnlls.Enabled:=True;
    btnSmpnlls.SetFocus;
end;
```

```
procedure TfrmMhs.BtnSmpnLlsClick(Sender: TObject);
begin
    btnSmpnLls.Enabled:=False;
    tg:=formatdatetime('yyyy/dd/mm',cbDTPicTglLls.Date);
    {simpan}
    try dm1.ADOConnection1.BeginTrans;
        with dm1.ADOQuery1 do
            begin
                Active:=False;
                Close;
                SQL.Clear;
                SQL.Text:='update tMhs set tgl_lls='+QuotedStr(tg)+'where nim='+nomhs;
                ExecSQL;
            end;
        dm1.ADOConnection1.CommitTrans;
        ShowMessage('Data Tersimpan');
    except dm1.ADOConnection1.RollbackTrans;
        ShowMessage('Gagal Simpan');
    end;
    btnllsn.Enabled:=True;
    btnllsn.SetFocus;
end;
```

```
procedure TfrmMhs.btnKmb1Click(Sender: TObject);
begin
    frmMhs.Close;
    FormCreate(Sender);
end;
end.
```



Gambar 10. Tampilan Sub Menu Matakuliah

### #Form Tampilan Sub Menu Matakuliah

unit uMtkl;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, StdCtrls, Grids, DBGrids, DB, ADODB;

type

```
TfrmMtkl = class(TForm)
  GroupBox1: TGroupBox;
  Label1: TLabel;
  Label2: TLabel;
  eNmMk: TEdit;
  Label3: TLabel;
  Label4: TLabel;
  GroupBox3: TGroupBox;
  gridMk: TDBGrid;
  GroupBox2: TGroupBox;
  btnSimpan: TButton;
  btnUbah: TButton;
  btnHps: TButton;
  btnKmb1: TButton;
  Label7: TLabel;
  btnRefresh: TButton;
  eKdMk: TEdit;
  cbSem: TComboBox;
  btnPrd: TButton;
  btnFak: TButton;
  btnBatal: TButton;
  btnMk: TButton;
```

```

DataSource1: TDataSource;
ADOTable1: TADOTable;
Label9: TLabel;
cbIlmu: TComboBox;
btnKur: TButton;
GroupBox4: TGroupBox;
cbUpps: TComboBox;
Label5: TLabel;
cbPrd: TComboBox;
Label6: TLabel;
cbSks: TComboBox;
GroupBox5: TGroupBox;
mInfo: TMemo;
cbKur: TComboBox;
procedure btnKmb1Click(Sender: TObject);
procedure cbUppsDropDown(Sender: TObject);
procedure cbUppsClick(Sender: TObject);
procedure cbPrdDropDown(Sender: TObject);

procedure cbPrdClick(Sender: TObject);
procedure eKdMkKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure eNmMkKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);

procedure cbSemKeyPress(Sender: TObject; var Key: Char);
procedure btnSimpanClick(Sender: TObject);
procedure btnFakClick(Sender: TObject);
procedure btnBatalClick(Sender: TObject);
procedure btnRefreshClick(Sender: TObject);
procedure btnMkClick(Sender: TObject);
procedure btnPrdClick(Sender: TObject);
procedure btnKurClick(Sender: TObject);
procedure FormCreate(Sender: TObject);
procedure cbSksKeyPress(Sender: TObject; var Key: Char);
procedure cbIlmuKeyPress(Sender: TObject; var Key: Char);
procedure cbKurKeyPress(Sender: TObject; var Key: Char);

private
  { Private declarations }
public
  { Public declarations }
end;

var
  frmMtk1: TfrmMtk1;
  kUpps,kPrd,kMK : String[10];
  kIlmu : String[5];

implementation

```

```
uses udm;
```

```
{ $R *.dfm }
```

```
procedure TfrmMtkl.FormCreate(Sender: TObject);
```

```
begin
```

```
  cbUpps.Enabled:=False;
```

```
  cbPrd.Enabled:=False;
```

```
  cbKur.Enabled:=False;
```

```
  eKdMk.Enabled:=False;
```

```
  eNmMk.Enabled:=False;
```

```
  cbSks.Enabled:=False;
```

```
  cbSem.Enabled:=False;
```

```
  cbIlmu.Enabled:=False;
```

```
  cbUpps.Color:=clMenu;
```

```
  cbPrd.Color:=clMenu;
```

```
  cbKur.Color:=clMenu;
```

```
  eKdMk.Color:=clMenu;
```

```
  eNmMk.Color:=clMenu;
```

```
  cbSks.Color:=clMenu;
```

```
  cbSem.Color:=clMenu;
```

```
  cbIlmu.Color:=clMenu;
```

```
  cbUpps.Clear;
```

```
  cbPrd.Clear;
```

```
  cbKur.Text:="";
```

```
  eKdMk.Clear;
```

```
  eNmMk.Clear;
```

```
  cbSks.Text:="";
```

```
  cbSem.Text:="";
```

```
  cbIlmu.Clear;
```

```
  btnFak.Enabled:=True;
```

```
  btnPrd.Enabled:=False;
```

```
  btnKur.Enabled:=False;
```

```
  btnMk.Enabled:=False;
```

```
  btnBatal.Enabled:=False;
```

```
  btnSimpan.Enabled:=False;
```

```
  btnUbah.Enabled:=False;
```

```
  btnHps.Enabled:=False;
```

```
  btnKmbL.Enabled:=True;
```

```
  btnRefresh.Enabled:=False;
```

```
with dm1.ADOQuery1 do
```

```
begin
```

```
  Active:=false;
```

```
  Close;
```

```
  SQL.Clear;
```

```
  SQL.Text:='select * from tllmu';
```

```
  Active:=true;
```

```
end;
```

```
  dm1.ADOQuery1.First;
```

```
while not dm1.ADOQuery1.Eof do
begin
  cbIlmu.Items.Add(dm1.ADOQuery1.FieldByName('nm_Ilmu').AsString);
  dm1.ADOQuery1.Next;
end;

end;
```

```
procedure TfrmMtkl.cbUppsDropDown(Sender: TObject);
begin
  cbUpps.Clear;
  with dm1.ADOQuery1 do
  begin
    Active:=false;
    Close;
    SQL.Clear;
    SQL.Text:='select * from tFak';
    Active:=true;
  end;
  while not dm1.ADOQuery1.Eof do
  begin
    cbUpps.Items.Add(dm1.ADOQuery1.FieldByName('nm_Fak').AsString);
    dm1.ADOQuery1.Next;
  end;
end;
```

```
procedure TfrmMtkl.cbUppsClick(Sender: TObject);
begin
  with dm1.ADOQuery1 do
  begin
    Active:=false;
    Close;
    SQL.Clear;
    SQL.Text:='select * from tFak where nm_Fak =' + QuotedStr(cbUpps.Text);
    Active:=true;
  end;
  kupps:=dm1.ADOQuery1['kd_Fak'];
  cbUpps.Color:=clMenu;
  cbUpps.Enabled:=False;
  cbPrd.Enabled:=True;
  cbPrd.SetFocus;
  cbPrd.Color:=clWhite;
end;
```

```
procedure TfrmMtkl.cbPrdDropDown(Sender: TObject);
begin
  cbPrd.Clear;
  with dm1.ADOQuery1 do
  begin
```

```

Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tProdi where kd_fak='+kupps;
Active:=true;
end;
while not dm1.ADOQuery1.Eof do
begin
  cbPrd.Items.Add(dm1.ADOQuery1.FieldByName('nm_Prd').AsString);
  dm1.ADOQuery1.Next;
end;
end;

procedure TfrmMtkl.cbPrdClick(Sender: TObject);
begin
  with dm1.ADOQuery1 do
  begin
    Active:=false;
    Close;
    SQL.Clear;
    SQL.Text:='select * from tProdi where nm_Prd =' + QuotedStr(cbPrd.Text);
    Active:=true;
  end;
  kprd:=dm1.ADOQuery1['kd_Prd'];
  cbPrd.Color:=clMenu;
  cbPrd.Enabled:=False;
  btnKur.Enabled:=True;
  cbPrd.Color:=clWhite;
end;

procedure TfrmMtkl.cbKurKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    cbKur.Color:=clMenu;
    cbKur.Enabled:=False;
    eKdMk.Color:=clWhite;
    eKdMk.Enabled:=True;
    eKdMk.SetFocus;
    eKdMk.Text:="";
    Exit;
  end;
end;

procedure TfrmMtkl.eKdMkKeyDown(Sender: TObject; var Key: Word;
Shift: TShiftState);
begin
  if (Key=VK_Return)and(eKdMk.Text<>") then
  begin
    eNmMk.Color:=clWhite;

```

```
    eNmMk.Enabled:=True;
    eNmMk.SetFocus;
    eKdMk.Color:=clMenu;
    eKdMk.Enabled:=False;
end
else
    eKdMk.Text;
end;
```

```
procedure TfrmMtkl.eNmMkKeyDown(Sender: TObject; var Key: Word;
Shift: TShiftState);
begin
    if (Key=VK_Return)and(eNmMk.Text<>") then
        begin
            cbSks.Color:=clWhite;
            cbSks.Enabled:=True;
            cbSks.SetFocus;
            eNmMk.Color:=clMenu;
            eNmMk.Enabled:=False;
        end
    else
        eNmMk.Text;
    end;
```

```
procedure TfrmMtkl.cbSksKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
        begin
            cbSks.Color:=clMenu;
            cbSks.Enabled:=False;
            cbSem.Color:=clWhite;
            cbSem.Enabled:=True;
            cbSem.SetFocus;
            cbSem.Text:="";
            Exit;
        end;
    end;
```

```
procedure TfrmMtkl.cbSemKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
        begin
            cbSem.Color:=clMenu;
            cbSem.Enabled:=False;
            cbIlmu.Color:=clWhite;
            cbIlmu.Enabled:=True;
            cbIlmu.SetFocus;
            cbIlmu.Text:="";
            Exit;
        end;
    end;
```

```

procedure TfrmMtkl.cbIlmuKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    with dm1.ADOQuery1 do
    begin
      Active:=false;
      Close;
      SQL.Clear;
      SQL.Text:='select * from tIlmu where nm_ilmu='+QuotedStr(cbIlmu.Text);
      Active:=true;
    end;
    kIlmu:=dm1.ADOQuery1['kd_ilmu'];
    cbIlmu.Color:=clMenu;
    cbIlmu.Enabled:=False;
    btnSimpan.Enabled:=True;
    btnSimpan.SetFocus;
    exit;
  end;
end;

```

```

procedure TfrmMtkl.btnSimpanClick(Sender: TObject);
begin

  kMK:=kPrd+eKdMk.Text;
  {label8.Caption:=kMK;}
  try dm1.ADOConnection1.BeginTrans;
  with dm1.ADOQuery1 do
  begin
    Active:=False;
    Close;
    SQL.Clear;
    SQL.Text:='insert into tMk(kd_Mk,nm_Mk,sks,sem,kur,kd_fak,kd_prd,kd_ilmu) values('
    +QuotedStr(kMK)+' '+QuotedStr(eNmMk.Text)+' '+
    QuotedStr(cbSks.Text)+' '+QuotedStr(cbSem.Text)+' '+QuotedStr(cbKur.Text)+
    '+' +QuotedStr(kupps)+' '+QuotedStr(kprd)+' '+QuotedStr(kilmu)+' ');
    ExecSQL;
  end;
  dm1.ADOConnection1.CommitTrans;
  ShowMessage('Data Tersimpan');
  except dm1.ADOConnection1.RollbackTrans;
  ShowMessage('Gagal Simpan');
  end;
  btnFak.Enabled:=True;
  btnPrd.Enabled:=True;
  btnKur.Enabled:=True;
  btnKur.Caption:='Kurikulum Lain';
  btnSimpan.Enabled:=False;
  btnMk.Enabled:=True;

```



```
    btnRefresh.Enabled:=True;  
end;
```

```
procedure TfrmMtkl.btnFakClick(Sender: TObject);  
begin  
    cbUpps.Clear;  
    cbPrd.Clear;  
    cbKur.Text:="";  
    eKdMk.Clear;  
    eNmMk.Clear;  
    cbSks.Text:="";  
    cbSem.Text:="";  
    cbIlmu.Text:="";  
    cbUpps.Enabled:=True;  
    cbUpps.Color:=clWhite;  
    cbUpps.SetFocus;  
    btnFak.Enabled:=False;  
    btnPrd.Enabled:=False;  
    btnKur.Enabled:=False;  
    btnMk.Enabled:=False;  
    btnBatal.Enabled:=True;  
end;
```

```
procedure TfrmMtkl.btnPrdClick(Sender: TObject);  
begin  
    cbPrd.Clear;  
    cbKur.Text:="";  
    eKdMk.Clear;  
    eNmMk.Clear;  
    cbSks.Text:="";  
    cbSem.Text:="";  
    cbIlmu.Text:="";  
    cbPrd.Enabled:=True;  
    cbPrd.Color:=clWhite;  
    cbPrd.SetFocus;  
    btnFak.Enabled:=False;  
    btnPrd.Enabled:=False;  
    btnKur.Enabled:=True;  
    btnMk.Enabled:=False;;  
    btnBatal.Enabled:=True;  
end;
```

```
procedure TfrmMtkl.btnKurClick(Sender: TObject);  
begin  
    cbKur.Text:="";  
    eKdMk.Clear;  
    eNmMk.Clear;  
    cbSks.Text:="";  
    cbSem.Text:="";  
    cbIlmu.Text:="";  
    cbKur.Enabled:=True;
```

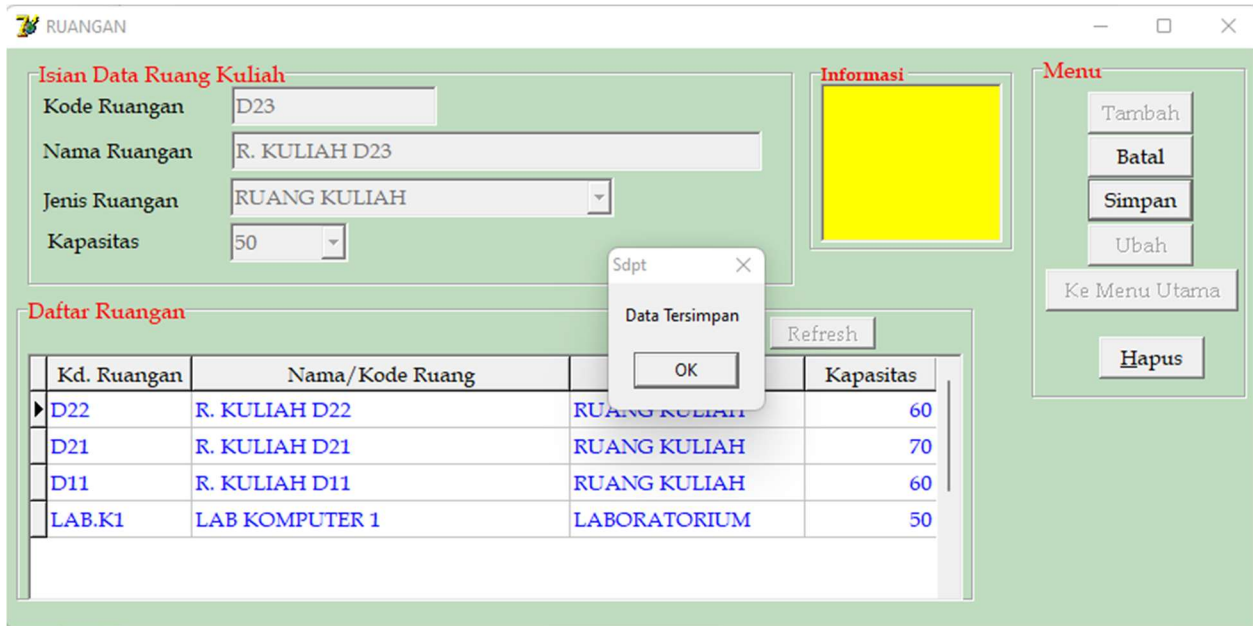
```
    cbKur.Color:=clWhite;
    cbKur.SetFocus;
    btnFak.Enabled:=False;
    btnPrd.Enabled:=False;
    btnKur.Enabled:=False;
    btnMk.Enabled:=False;;
    btnBatal.Enabled:=True;
end;
```

```
procedure TfrmMtkl.btnMkClick(Sender: TObject);
begin
    eKdMk.Clear;
    eNmMk.Clear;
    cbSks.Text:="";
    cbSem.Text:="";
    cbIlmu.Text:="";
    eKdMk.Enabled:=True;
    eKdMk.Color:=clWhite;
    eKdMk.SetFocus;
end;
```

```
procedure TfrmMtkl.btnBatalClick(Sender: TObject);
begin
    FormCreate(Sender);
end;
```

```
procedure TfrmMtkl.btnRefreshClick(Sender: TObject);
begin
    dm1.ADOQuery1.Active:=False;
    dm1.ADOQuery1.SQL.Text:='SELECT * FROM tMk where kd_prd='+kprd+'order by sem ASC';
    dm1.ADOQuery1.Active:=True;
    ADOTable1.Active:=False;
    ADOTable1.Active:=True;
    gridMk.Enabled:=True;
end;
```

```
procedure TfrmMtkl.btnKmb1Click(Sender: TObject);
begin
    FormCreate(Sender);
    frmMtkl.Close;
end;
end.
```



Gambar 11. Tampilan Sub Menu Ruang Kuliah

### #Form Tampilan Sub Menu Ruang Kuliah

unit uRuang;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, StdCtrls, Grids, DBGrids, DB, ADODB;

type

```
TfrmRuang = class(TForm)
  GroupBox1: TGroupBox;
  Label2: TLabel;
  Label6: TLabel;
  Label4: TLabel;
  eKdRuang: TEdit;
  cbJns: TComboBox;
  GroupBox2: TGroupBox;
  gridRuang: TDBGrid;
  btnRefresh: TButton;
  GroupBox3: TGroupBox;
  btnSimpan: TButton;
  btnUbah: TButton;
  btnKmb1: TButton;
  btnHps: TButton;
  btnTambah: TButton;
  btnBatal: TButton;
  cbJml: TComboBox;
  DataSource1: TDataSource;
```

```

ADOTable1: TADOTable;
eNmRuang: TEdit;
Label1: TLabel;
GroupBox4: TGroupBox;
mInfo: TMemo;
procedure btnKmb1Click(Sender: TObject);
procedure FormCreate(Sender: TObject);
procedure btnTambahClick(Sender: TObject);
procedure btnBatalClick(Sender: TObject);
procedure eKdRuangKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
procedure cbJnsKeyPress(Sender: TObject; var Key: Char);

procedure btnSimpanClick(Sender: TObject);
procedure cbJmlKeyPress(Sender: TObject; var Key: Char);
procedure btnRefreshClick(Sender: TObject);
procedure FormShow(Sender: TObject);
procedure eNmRuangKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
private
  { Private declarations }
public
  { Public declarations }
end;

var
  frmRuang: TfrmRuang;

implementation

uses udm;

{$R *.dfm}

procedure TfrmRuang.btnKmb1Click(Sender: TObject);
begin
  frmRuang.Close;
end;

procedure TfrmRuang.FormCreate(Sender: TObject);
begin
  eKdRuang.Enabled:=False;
  eNmRuang.Enabled:=False;
  cbJns.Enabled:=False;
  cbJml.Enabled:=False;
  eKdRuang.Color:=clMenu;
  eNmRuang.Color:=clMenu;
  cbJns.Color:=clMenu;
  cbJml.Color:=clMenu;
  eKdRuang.Clear;
  eNmRuang.Clear;

```

```

    cbJns.Text:="";
    cbJml.Text:="";
    btnTambah.Enabled:=True;
    btnBatal.Enabled:=False;
    btnSimpan.Enabled:=False;
    btnUbah.Enabled:=False;
    btnKmbL.Enabled:=True;
    btnRefresh.Enabled:=True;
end;

procedure TfrmRuang.eKdRuangKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
begin
  if (Key=VK_Return)and(eKdRuang.Text<>") then
  begin
    eNmRuang.Color:=clWhite;
    eNmRuang.Enabled:=True;
    eNmRuang.SetFocus;
    eKdRuang.Color:=clMenu;
    eKdRuang.Enabled:=False;
  end
  else
    eKdRuang.Text;
end;

procedure TfrmRuang.eNmRuangKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
begin
  if (Key=VK_Return)and(eNmRuang.Text<>") then
  begin
    cbJns.Color:=clWhite;
    cbJns.Enabled:=True;
    cbJns.SetFocus;
    eNmRuang.Color:=clMenu;
    eNmRuang.Enabled:=False;
  end
  else
    eNmRuang.Text;
end;

procedure TfrmRuang.cbJnsKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    cbJns.Color:=clMenu;
    cbJns.Enabled:=False;
    cbJml.Color:=clWhite;
    cbJml.Enabled:=True;
    cbJml.SetFocus;
    Exit;
  end;
end;

```

```

end;

procedure TfrmRuang.btnTambahClick(Sender: TObject);
begin
    eKdRuang.Color:=clWhite;
    eKdRuang.Enabled:=True;
    eKdRuang.SetFocus;

    btnTambah.Enabled:=False;
    btnBatal.Enabled:=True;
    btnKmb1.Enabled:=False;
    btnRefresh.Enabled:=False;
    gridRuang.Enabled:=False;
end;

procedure TfrmRuang.btnBatalClick(Sender: TObject);
begin
    FormCreate(Sender);
end;

procedure TfrmRuang.btnSimpanClick(Sender: TObject);
begin
    try dm1.ADOConnection1.BeginTrans;
    with dm1.ADOQuery1 do
    begin
        Active:=False;
        Close;
        SQL.Clear;
        SQL.Text:='insert into tRuang(kd_ruang,nm_ruang,jns,kapts) values('
        +QuotedStr(eKdRuang.Text)+'+'+QuotedStr(eNmRuang.Text)+'+'+
        QuotedStr(cbJns.Text)+'+'+QuotedStr(cbJml.Text)+')';
        ExecSQL;
    end;

    dm1.ADOConnection1.CommitTrans;
    ShowMessage('Data Tersimpan');
    except dm1.ADOConnection1.RollbackTrans;
    ShowMessage('Gagal Simpan');
    end;
    btnSimpan.Enabled:=False;
    FormCreate(Sender);
    btnRefresh.Enabled:=True;
end;

procedure TfrmRuang.cbJmlKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        cbJml.Color:=clMenu;
        cbJml.Enabled:=False;
        btnSimpan.Enabled:=True;
        btnSimpan.SetFocus;
    end;
end;

```

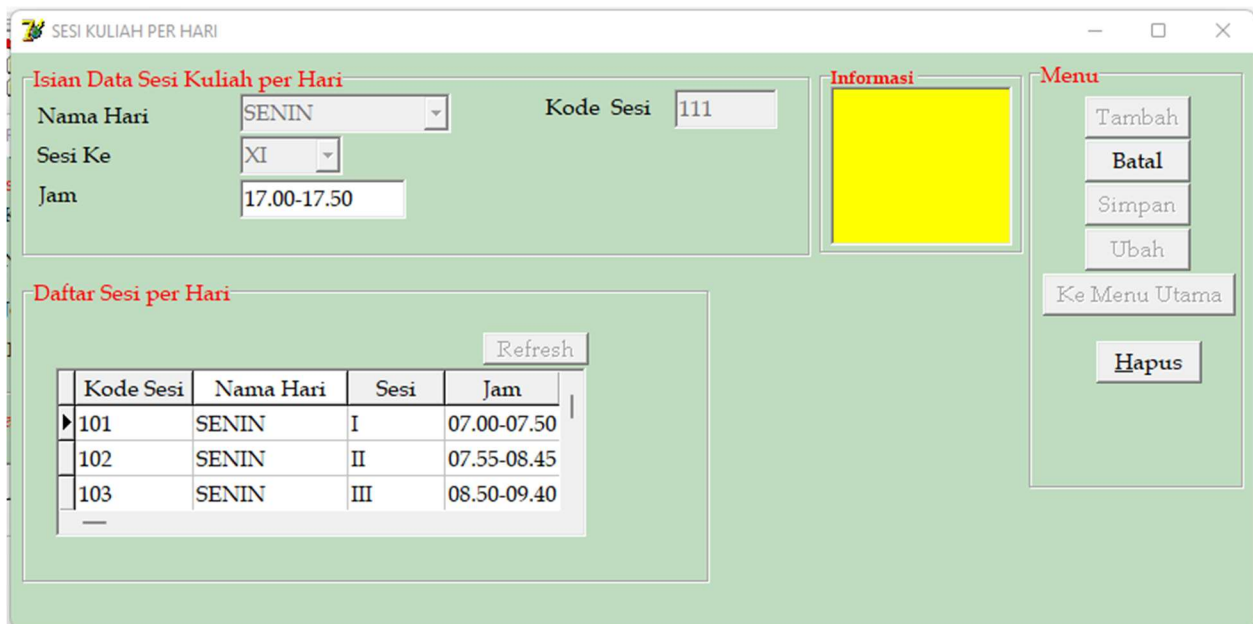
```

Exit;
end;
end;

procedure TfrmRuang.btnRefreshClick(Sender: TObject);
begin
dm1.ADOQuery1.Active:=False;
dm1.ADOQuery1.SQL.Text:='select * from tRuang order by nm_ruang ASC';
dm1.ADOQuery1.Active:=True;
ADOTable1.Active:=False;
ADOTable1.Active:=True;
gridRuang.Enabled:=True;
end;

procedure TfrmRuang.FormShow(Sender: TObject);
begin
  btnRefreshClick(Sender);
end;
end.

```



Gambar 12. Tampilan Sub Menu Jam Sesi

### #Form Tampilan Sub Menu Jam Sesi

```

unit uSesi;
interface
uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  Dialogs, StdCtrls, Grids, DBGrids, DB, ADODB;

type

```

```

TfrmSesi = class(TForm)
  GroupBox1: TGroupBox;
  Label1: TLabel;
  Label2: TLabel;
  Label6: TLabel;
  Label4: TLabel;
  eKdSesi: TEdit;
  eJam: TEdit;
  cbNmHr: TComboBox;
  cbSesi: TComboBox;
  gbSesi: TGroupBox;
  btnRefresh: TButton;
  GroupBox3: TGroupBox;
  btnSimpan: TButton;
  btnUbah: TButton;
  btnKmb1: TButton;
  btnHps: TButton;
  btnTambah: TButton;
  btnBatal: TButton;
  GroupBox4: TGroupBox;
  mInfo: TMemo;
  DataSource1: TDataSource;
  gridSesi: TDBGrid;
  ADOTable1: TADOTable;
  procedure btnKmb1Click(Sender: TObject);
  procedure FormCreate(Sender: TObject);
  procedure btnTambahClick(Sender: TObject);
  procedure cbNmHrKeyPress(Sender: TObject; var Key: Char);
  procedure cbSesiKeyPress(Sender: TObject; var Key: Char);
  procedure eJamKeyPress(Sender: TObject; var Key: Char);
  procedure btnBatalClick(Sender: TObject);
  procedure btnSimpanClick(Sender: TObject);
  procedure btnRefreshClick(Sender: TObject);
  procedure FormShow(Sender: TObject);
  // procedure DataSource1DataChange(Sender: TObject; Field: TField);
private
  { Private declarations }
public
  { Public declarations }
end;

var
  frmSesi : TfrmSesi;
  ksesi  : String[10];
  hr,sesi : String[3];
implementation
uses udm;
{$R *.dfm}

```



```
procedure TfrmSesi.FormCreate(Sender: TObject);
begin
  cbNmHr.Enabled:=False;
  cbSesi.Enabled:=False;
  eJam.Enabled:=False;
  eKdSesi.Enabled:=False;
  cbNmHr.Color:=clMenu;
  cbSesi.Color:=clMenu;
  eJam.Color:=clMenu;
  eKdSesi.Color:=clMenu;
  cbNmHr.Text:='';
  cbSesi.Text:='';
  eJam.Clear;
  eKdSesi.Clear;
  btnTambah.Enabled:=True;
  btnBatal.Enabled:=False;
  btnSimpan.Enabled:=False;
  btnUbah.Enabled:=False;
  btnKmbL.Enabled:=True;
  btnRefresh.Enabled:=True;
end;
```

```
procedure TfrmSesi.btnTambahClick(Sender: TObject);
begin
  cbNmHr.Color:=clWhite;
  cbNmHr.Enabled:=True;
  cbNmHr.SetFocus;
  btnTambah.Enabled:=False;
  btnBatal.Enabled:=True;
  btnKmbL.Enabled:=False;
  btnRefresh.Enabled:=False;
  gridSesi.Enabled:=False;
end;
```

```
procedure TfrmSesi.cbNmHrKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    cbNmHr.Color:=clMenu;
    cbNmHr.Enabled:=False;
    cbSesi.Color:=clWhite;
    cbSesi.Enabled:=True;
    cbSesi.SetFocus;
    cbSesi.Text:='';
    if (cbNmHr.Text='SENIN') then hr:='1';
    if (cbNmHr.Text='SELASA') then hr:='2';
    if (cbNmHr.Text='RABU') then hr:='3';
    if (cbNmHr.Text='KAMIS') then hr:='4';
    if (cbNmHr.Text='JUMAT') then hr:='5';
    if (cbNmHr.Text='SABTU') then hr:='6';
```

```
    Exit;
end;
end;
```

```
procedure TfrmSesi.cbSesiKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        cbSesi.Color:=clMenu;
        cbSesi.Enabled:=False;
        eJam.Color:=clWhite;
        eJam.Enabled:=True;
        eJam.SetFocus;
        eJam.Clear;
        if (cbSesi.Text='I') then sesi:='01';
        if (cbSesi.Text='II') then sesi:='02';
        if (cbSesi.Text='III') then sesi:='03';
        if (cbSesi.Text='IV') then sesi:='04';
        if (cbSesi.Text='V') then sesi:='05';
        if (cbSesi.Text='VI') then sesi:='06';
        if (cbSesi.Text='VII') then sesi:='07';
        if (cbSesi.Text='VIII') then sesi:='08';
        if (cbSesi.Text='IX') then sesi:='09';
        if (cbSesi.Text='X') then sesi:='10';
        if (cbSesi.Text='XI') then sesi:='11';
        if (cbSesi.Text='XII') then sesi:='12';
        if (cbSesi.Text='XIII') then sesi:='13';
        if (cbSesi.Text='XIV') then sesi:='14';
        if (cbSesi.Text='XV') then sesi:='15';
        eKdSesi.Text:=hr+sesi;
        Exit;
    end;
end;
```

```
procedure TfrmSesi.eJamKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        eJam.Color:=clMenu;
        eJam.Enabled:=False;
        btnSimpan.Enabled:=True;
        btnSimpan.SetFocus;
        exit;
    end;
end;
```

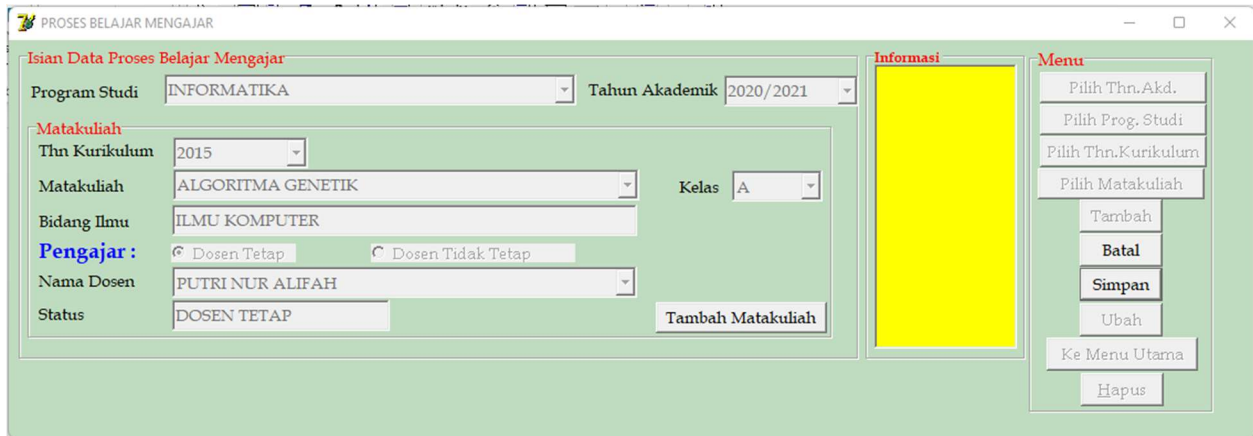
```
procedure TfrmSesi.btnKmb1Click(Sender: TObject);
begin
    frmSesi.Close;
end;
```

```
procedure TfrmSesi.btnBatalClick(Sender: TObject);
begin
  FormCreate(Sender);
end;
```

```
procedure TfrmSesi.btnSimpanClick(Sender: TObject);
begin
  ksesi:=eKdSesi.Text;
  try dm1.ADOConnection1.BeginTrans;
  with dm1.ADOQuery1 do
  begin
    Active:=False;
    Close;
    SQL.Clear;
    SQL.Text:='insert into tSesi(kd_sesi,nm_hr,sesi,jam) values('
    +QuotedStr(ksesi)+' '+QuotedStr(cbNmHr.Text)+' '+QuotedStr(cbSesi.Text)+' '+
    QuotedStr(eJam.Text)+')';
    ExecSQL;
  end;
  dm1.ADOConnection1.CommitTrans;
  ShowMessage('Data Tersimpan');
  except dm1.ADOConnection1.RollbackTrans;
  ShowMessage('Gagal Simpan');
  end;
  btnSimpan.Enabled:=False;
  btnKmb1.Enabled:=True;
  btnRefresh.Enabled:=True;
end;
```

```
procedure TfrmSesi.btnRefreshClick(Sender: TObject);
begin
  dm1.ADOQuery1.Active:=False;
  dm1.ADOQuery1.SQL.Text:='select * from tSesi order by kd_sesi ASC';
  dm1.ADOQuery1.Active:=True;
  ADOTable1.Active:=False;
  ADOTable1.Active:=True;
  gridSesi.Enabled:=True;
end;
```

```
procedure TfrmSesi.FormShow(Sender: TObject);
begin
  btnRefreshClick(Sender);
end;
end.
```



Gambar 13. Tampilan Sub Menu Proses Belajar Mengajar

### #Form Tampilan Sub Menu Proses Belajar Mengajar

unit uPBM;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, StdCtrls, Grids, DBGrids, DB, ADODB;

type

```
TfrmPBM = class(TForm)
  GroupBox1: TGroupBox;
  GroupBox4: TGroupBox;
  mInfo: TMemo;
  GroupBox3: TGroupBox;
  btnSimpan: TButton;
  btnUbah: TButton;
  btnKmb1: TButton;
  btnHps: TButton;
  btnTambah: TButton;
  btnBatal: TButton;
  cbProdi: TComboBox;
  Label7: TLabel;
  Label9: TLabel;
  btnTA: TButton;
  cbTAkd: TComboBox;
  btnPrd: TButton;
  btnKur: TButton;
  btnMk: TButton;
  GroupBox2: TGroupBox;
  Label11: TLabel;
  cbKur: TComboBox;
  cbMk: TComboBox;
  Label2: TLabel;
  Label1: TLabel;
  eIlmu: TEdit;
  Label8: TLabel;
  rbDsnT: TRadioButton;
```

```

rbDsnTT: TRadioButton;
cbDsn: TComboBox;
cbKls: TComboBox;
Label6: TLabel;
Label3: TLabel;
Label10: TLabel;
eStts: TEdit;
Button1: TButton;
DataSource1: TDataSource;
ADOTable1: TADOTable;
procedure btnKmb1Click(Sender: TObject);
procedure FormCreate(Sender: TObject);
procedure btnTambahClick(Sender: TObject);
procedure btnBatalClick(Sender: TObject);
procedure cbProdiKeyPress(Sender: TObject; var Key: Char);
procedure cbDsnKeyPress(Sender: TObject; var Key: Char);
procedure cbKlsKeyPress(Sender: TObject; var Key: Char);
procedure rbDsnTClick(Sender: TObject);
procedure rbDsnTTClick(Sender: TObject);
procedure btnTAClick(Sender: TObject);
procedure cbTAkdKeyPress(Sender: TObject; var Key: Char);
procedure btnSimpanClick(Sender: TObject);
procedure cbKurKeyPress(Sender: TObject; var Key: Char);
procedure cbMkKeyPress(Sender: TObject; var Key: Char);

private
  { Private declarations }
public
  { Public declarations }
end;

var
  frmPBM: TfrmPBM;
  kprodi,kmk,kilmu,kdsn : String[10];
  kkur : String[5];

implementation
uses udm;
{$R *.dfm}

procedure TfrmPBM.FormCreate(Sender: TObject);
begin
  cbTAkd.Enabled:=False;
  cbProdi.Enabled:=False;
  cbKur.Enabled:=False;
  cbMK.Enabled:=False;
  eIlmu.Enabled:=False;
  cbKls.Enabled:=False;
  rbDsnT.Enabled:=False;
  rbDsnTT.Enabled:=False;
  cbDsn.Enabled:=False;

```

```

eStts.Enabled:=False;

cbTAkd.Color:=clMenu;
cbProdi.Color:=clMenu;
cbKur.Color:=clMenu;
cbMK.Color:=clMenu;
cbKls.Color:=clMenu;
eIlmu.Color:=clMenu;
rbDsnT.Color:=clMenu;
rbDsnTT.Color:=clMenu;
cbDsn.Color:=clMenu;
eStts.Color:=clMenu;
cbTAkd.Text:="";
cbProdi.Text:="";
cbMK.Text:="";
cbKur.Text:="";
cbKls.Text:="";
eIlmu.Clear;
cbDsn.Text:="";
eStts.Clear;
btnTambah.Enabled:=True;
btnTA.Enabled:=False;
btnPrd.Enabled:=False;
btnKur.Enabled:=False;
btnMk.Enabled:=False;
btnBatal.Enabled:=False;
btnSimpan.Enabled:=False;
btnUbah.Enabled:=False;
btnKmbL.Enabled:=True;
btnHps.Enabled:=False;
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select * from tProdi';
  Active:=true;
end;
dm1.ADOQuery1.First;
while not dm1.ADOQuery1.Eof do
begin
  cbProdi.Items.Add(dm1.ADOQuery1.FieldByName('nm_Prd').AsString);
  dm1.ADOQuery1.Next;
end;
end;

procedure TfrmPBM.cbTAkdKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    cbTAkd.Color:=clMenu;
  end;
end;

```

```

    cbTAkd.Enabled:=False;
    cbProdi.Text:="";
    cbProdi.ItemIndex:=0;
    cbProdi.Color:=clWhite;
    cbProdi.Enabled:=True;
    cbProdi.SetFocus;
    btnTA.Enabled:=False;
    Exit;
end;
end;

```

```

procedure TfrmPBM.cbProdiKeyPress(Sender: TObject; var Key: Char);

```

```

begin
    if (Key=chr(13)) then
    begin
        with dm1.ADOQuery1 do
        begin
            Active:=false;
            Close;
            SQL.Clear;
            SQL.Text:='select * from tProdi where nm_prd='+QuotedStr(cbProdi.Text);
            Active:=true;
        end;
        kprodi:=dm1.ADOQuery1['kd_prd'];
        cbProdi.Color:=clMenu;
        cbProdi.Enabled:=False;
        cbKur.Text:="";
        cbKur.ItemIndex:=0;
        cbKur.Enabled:=True;
        cbKur.Color:=clWhite;
        cbKur.SetFocus;
        {items tahun kurikulum}
        with dm1.ADOQuery1 do
        begin
            Active:=false;
            Close;
            SQL.Clear;
            SQL.Text:='select distinct kur from tMK where kd_prd='+QuotedStr(kprodi);
            Active:=true;
        end;
        while not dm1.ADOQuery1.Eof do
        begin
            cbKur.Items.Add(dm1.ADOQuery1.FieldByName('kur').AsString);
            dm1.ADOQuery1.Next;
        end;
        Exit;
    end;
end;

```

```

procedure TfrmPBM.cbKurKeyPress(Sender: TObject; var Key: Char);

```

```

begin

```

```

if (Key=chr(13)) then
begin
  cbKur.Color:=clMenu;
  cbKur.Enabled:=False;
  kkur:=cbKur.Text;
  cbMk.Clear;
  with dm1.ADOQuery1 do
  begin
    Active:=false;
    Close;
    SQL.Clear;
    SQL.Text:='select * from tMK where kur='+QuotedStr(kkur)+'and kd_prd='+QuotedStr(kprodi);
    Active:=true;
  end;
  while not dm1.ADOQuery1.Eof do
  begin
    cbMk.Items.Add(dm1.ADOQuery1.FieldByName('nm_Mk').AsString);
    dm1.ADOQuery1.Next;
  end;
  cbMk.Text:="";
  cbMk.ItemIndex:=0;
  cbMk.Enabled:=True;
  cbMk.Color:=clWhite;
  cbMk.SetFocus;
  btnTA.Enabled:=False;
  Exit;
end;
end;

```

```

procedure TfrmPBM.cbMkKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    with dm1.ADOQuery1 do
    begin
      Active:=false;
      Close;
      SQL.Clear;
      SQL.Text:='select * from tMk where nm_mk='+QuotedStr(cbMk.Text);
      Active:=true;
    end;
    kmk:=dm1.ADOQuery1['kd_mk'];
    kilmu:=dm1.ADOQuery1['kd_ilmu'];
    with dm1.ADOQuery1 do
    begin
      Active:=false;
      Close;
      SQL.Clear;
      SQL.Text:='select nm_ilmu from tllmu inner join tMK on tllmu.Kd_ilmu=tMk.kd_ilmu where
kd_mk='+QuotedStr(kmk);

```



```

    Active:=true;
end;
ellmu.Text:=dm1.ADOQuery1['nm_ilmu'];
cbMk.Color:=clMenu;
cbMk.Enabled:=False;
cbKls.Text:="";
cbKls.ItemIndex:=0;
cbKls.Enabled:=True;
cbKls.Color:=clWhite;
cbKls.SetFocus;
exit;
end;
end;

```

```

procedure TfrmPBM.cbKlsKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
        begin
            cbkls.Color:=clMenu;
            cbKls.Enabled:=False;
            rbDsnT.Enabled:=True;
            rbDsnT.Checked:=True;
            rbDsnTT.Enabled:=True;
            Exit;
        end;
end;

```

```

procedure TfrmPBM.rbDsnTClick(Sender: TObject);
begin
    if rbDsnT.Checked=True then
        begin
            cbDsn.Items.Clear;
            with dm1.ADOQuery1 do
                begin
                    Active:=false;
                    Close;
                    SQL.Clear;
                    SQL.Text:='select * from tDsnT';
                    Active:=true;
                end;
            dm1.ADOQuery1.First;
            while not dm1.ADOQuery1.Eof do
                begin
                    cbDsn.Items.Add(dm1.ADOQuery1.FieldByName('nm_Dsn').AsString);
                    dm1.ADOQuery1.Next;
                end;
            end;
            cbDsn.Color:=clWhite;
            cbDsn.Enabled:=True;
            cbDsn.SetFocus;
            cbDsn.Text:="";
        end;
end;

```

```

    Exit;
end;

procedure TfrmPBM.rbDsnTTClick(Sender: TObject);
begin
    if rbDsnTT.Checked=True then
    begin
        cbDsn.Items.Clear;
        with dm1.ADOQuery1 do
        begin
            Active:=false;
            Close;
            SQL.Clear;
            SQL.Text:='select * from tDsnTT';
            Active:=true;
        end;
        dm1.ADOQuery1.First;
        while not dm1.ADOQuery1.Eof do
        begin
            cbDsn.Items.Add(dm1.ADOQuery1.FieldByName('nm_Dsn').AsString);
            dm1.ADOQuery1.Next;
        end;
    end;
    cbDsn.Color:=clWhite;
    cbDsn.Enabled:=True;
    cbDsn.SetFocus;
    cbDsn.Text:='';
    Exit;
end;

procedure TfrmPBM.cbDsnKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        if rbDsnT.Checked=True then
        begin
            with dm1.ADOQuery1 do
            begin
                Active:=false;
                Close;
                SQL.Clear;
                SQL.Text:='select * from tDsnT where nm_dsn='+QuotedStr(cbDsn.Text);
                Active:=true;
            end;
            kdsn:=dm1.ADOQuery1['nidn'];
            eStts.Text:=dm1.ADOQuery1['status'];
        end;
    end;

    if rbDsnTT.Checked=True then
    begin
        with dm1.ADOQuery1 do

```

```

begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select * from tDsnTT where nm_dsn='+QuotedStr(cbDsn.Text);
  Active:=true;
  kdsn:=dm1.ADOQuery1['no_id'];
  eStts.Text:=dm1.ADOQuery1['status'];
end;
end;
cbDsn.Color:=clMenu;
cbDsn.Enabled:=False;
rbDsnT.Enabled:=False;
rbDsnTT.Enabled:=False;
btnSimpan.Enabled:=True;
btnSimpan.SetFocus;
exit;
end;
end;

```

```

procedure TfrmPBM.btnTambahClick(Sender: TObject);

```

```

begin
  cbTAkd.Color:=clWhite;
  cbTAkd.Enabled:=True;
  cbTAkd.SetFocus;
  btnTambah.Enabled:=False;
  btnBatal.Enabled:=True;
  btnKmb1.Enabled:=False;
end;

```

```

procedure TfrmPBM.btnBatalClick(Sender: TObject);

```

```

begin
  FormCreate(Sender);
end;

```

```

procedure TfrmPBM.btnTAClick(Sender: TObject);

```

```

begin
  cbTAkd.Text:="";
  cbTAkd.ItemIndex:=1;
  cbProdi.Text:="";
  cbMK.Text:="";
  cbKls.Text:="";
  eIlmu.Clear;
  cbDsn.Text:="";

  cbTAkd.Enabled:=True;
  cbTAkd.Color:=clWhite;
  cbTAkd.SetFocus;
  btnTambah.Enabled:=False;
  btnBatal.Enabled:=True;
end;

```

```

procedure TfrmPBM.btnSimpanClick(Sender: TObject);
begin
  try dm1.ADOConnection1.BeginTrans;
  with dm1.ADOQuery1 do
  begin
    Active:=False;
    Close;
    SQL.Clear; {kd_pmb ditunda autoincrement}
    SQL.Text:='insert into tPBM(ta,kd_prd,kd_mk,kd_ilmu,nidn) values('
    +QuotedStr(cbTAkd.Text)+' '+kprodi+' '+kmk+' '+kilmu+' '+kdsn+')';
    ExecSQL;
  end;
  dm1.ADOConnection1.CommitTrans;
  ShowMessage('Data Tersimpan');
  except dm1.ADOConnection1.RollbackTrans;
  ShowMessage('Gagal Simpan');
  end;
  btnSimpan.Enabled:=False;
  FormCreate(Sender);
end;

procedure TfrmPBM.btnKmb1Click(Sender: TObject);
begin
  frmPBM.Close;
end;
end.

```

Gambar 14. Tampilan Sub Menu Pengelolaan Dana Masuk dan Dana Keluar

### #Form Tampilan Sub Menu Pengelolaan Dana Masuk dan Dana Keluar

unit uDana;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, StdCtrls;

type

```
TfrmDana = class(TForm)
  GroupBox4: TGroupBox;
  Label5: TLabel;
  Label6: TLabel;
  cbUpps: TComboBox;
  cbPrd: TComboBox;
  GroupBox1: TGroupBox;
  Label55: TLabel;
  eDnLain: TEdit;
  eTotMsk: TEdit;
  Label54: TLabel;
  GroupBox14: TGroupBox;
  Label25: TLabel;
  Label30: TLabel;
  Label52: TLabel;
  Label53: TLabel;
```

```
Label23: TLabel;
Label26: TLabel;
Label27: TLabel;
Label28: TLabel;
Label29: TLabel;
Label31: TLabel;
eGjDsn: TEdit;
eGjPeg: TEdit;
eBeaTL: TEdit;
eBeaPbm: TEdit;
eBeaPnl: TEdit;
eBeaKmhs: TEdit;
eBeaInv: TEdit;
eBeaPkm: TEdit;
eTotKlr: TEdit;
BtnSmpnDnMsk: TButton;
btnSmpnDnKlr: TButton;
GroupBox3: TGroupBox;
btnDnKlr: TButton;
btnKmb: TButton;
btnPrd: TButton;
btnFak: TButton;
btnBatal: TButton;
btnDnMsk: TButton;
btnHps: TButton;
Label61: TLabel;
eTotBOP: TEdit;
eSpp: TEdit;
Label1: TLabel;
cbTAkd: TComboBox;
Label2: TLabel;
procedure FormCreate(Sender: TObject);
procedure btnKmbClick(Sender: TObject);
procedure btnDnMskClick(Sender: TObject);
procedure btnFakClick(Sender: TObject);
procedure btnPrdClick(Sender: TObject);
procedure cbTAkdKeyPress(Sender: TObject; var Key: Char);
procedure cbUppsKeyPress(Sender: TObject; var Key: Char);
procedure cbPrdKeyPress(Sender: TObject; var Key: Char);
procedure eDnLainKeyPress(Sender: TObject; var Key: Char);
procedure btnDnKlrClick(Sender: TObject);
procedure eGjDsnKeyPress(Sender: TObject; var Key: Char);
procedure eGjPegKeyPress(Sender: TObject; var Key: Char);
procedure eBeaPbmKeyPress(Sender: TObject; var Key: Char);
procedure eBeaTLKeyPress(Sender: TObject; var Key: Char);
procedure eBeaKmhsKeyPress(Sender: TObject; var Key: Char);
procedure eBeaPnlKeyPress(Sender: TObject; var Key: Char);
procedure eBeaPkmKeyPress(Sender: TObject; var Key: Char);
procedure eBeaInvKeyPress(Sender: TObject; var Key: Char);
procedure btnBatalClick(Sender: TObject);
procedure btnSmpnDnKlrClick(Sender: TObject);
```

```
private
  { Private declarations }
public
  { Public declarations }
end;
```

```
var
  frmDana: TfrmDana;
  kUpps,kPrd          : String[10];
  dnLain,tspp,tsppt,tsppv,tpktt,tpkts,tpktb,tukt,tmsk,
  gjdsn,gjjpeg,beapbm,beatl,beakmhs,beapnlt,beapkm,beainv,tbop,tpnglr : real;
  jmhs,jsks  : integer;
```

```
implementation
uses udm;
{$R *.dfm}
```

```
procedure TfrmDana.FormCreate(Sender: TObject);
begin
```

```
  cbUpps.Enabled:=True;
  cbPrd.Enabled:=False;
  cbTAkd.Enabled:=False;
  eSpp.Enabled:=False;
  eDnLain.Enabled:=False;
  eTotMsk.Enabled:=False;
  eGjDsn.Enabled:=False;
  eGjPeg.Enabled:=False;
  eBeaPbm.Enabled:=False;
  eBeaTL.Enabled:=False;
  eBeaKmhs.Enabled:=False;
  eTotBOP.Enabled:=False;
  eTotBOP.Enabled:=False;
  eBeaPnlt.Enabled:=False;
  eBeaPkm.Enabled:=False;
  eBeaInv.Enabled:=False;
  eTotKlr.Enabled:=False;
  btnFak.Enabled:=False;
  btnPrd.Enabled:=False;
  btnDnMsk.Enabled:=False;
  btnDnKlr.Enabled:=False;
  btnBatal.Enabled:=False;
  btnHps.Enabled:=False;
  btnSmpnDnMsk.Enabled:=False;
  btnSmpnDnKlr.Enabled:=False;
  btnKmbL.Enabled:=True;
  cbUpps.Color:=clWhite;
  cbPrd.Color:=clMenu;
  cbTAkd.Color:=clMenu;
  eSpp.Color:=clMenu;
  eDnLain.Color:=clMenu;
  eTotMsk.Color:=clMenu;
```

```

eGjDsn.Color:=clMenu;
eGjPeg.Color:=clMenu;
eBeaPbm.Color:=clMenu;
eBeaTL.Color:=clMenu;
eBeaKmhs.Color:=clMenu;
eTotBOP.Color:=clMenu;
eTotBOP.Color:=clMenu;
eBeaPnlt.Color:=clMenu;
eBeaPkm.Color:=clMenu;
eBeaInv.Color:=clMenu;
eTotKlr.Color:=clMenu;
cbUpps.Clear;
cbPrd.Clear;
cbTAkd.Text:=";
eSpp.Clear;
eDnLain.Clear;
eTotMsk.Clear;
eGjDsn.Clear;
eGjPeg.Clear;
eBeaPbm.Clear;
eBeaTL.Clear;
eBeaKmhs.Clear;
eTotBOP.Clear;
eTotBOP.Clear;
eBeaPnlt.Clear;
eBeaPkm.Clear;
eBeaInv.Clear;
eTotKlr.Clear;
btnKmb1.Enabled:=True;
{baca fak}
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select * from tFak';
  Active:=true;
end;
while not dm1.ADOQuery1.Eof do
begin
  cbUpps.Items.Add(dm1.ADOQuery1.FieldByName('nm_Fak').AsString);
  dm1.ADOQuery1.Next;
end;
end;

```

```

procedure TfrmDana.btnFakClick(Sender: TObject);
begin
  cbUpps.Clear;
  cbPrd.Clear;
  cbTAkd.Text:=";
  eSpp.Clear;

```



```

eDnLain.Clear;
eTotMsk.Clear;
eGjDsn.Clear;
eGjPeg.Clear;
eBeaPbm.Clear;
eBeaTL.Clear;
eBeaKmhs.Clear;
eTotBOP.Clear;
eTotBOP.Clear;
eBeaPnlt.Clear;
eBeaPkm.Clear;
eBeaInv.Clear;
eTotKlr.Clear;
cbUpps.Enabled:=True;
cbUpps.Color:=clWhite;
cbUpps.SetFocus;
btnFak.Enabled:=False;
btnBatal.Enabled:=True;
end;

procedure TfrmDana.btnPrdClick(Sender: TObject);
begin
  cbPrd.Enabled:=True;
  cbPrd.Color:=clWhite;
  cbPrd.SetFocus;
end;

procedure TfrmDana.cbUppsKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    with dm1.ADOQuery1 do
    begin
      Active:=false;
      Close;
      SQL.Clear;
      SQL.Text:='select * from tFak where nm_Fak =' + QuotedStr(cbUpps.Text);
      Active:=true;
    end;
    kupps:=dm1.ADOQuery1['kd_Fak'];
    cbUpps.Color:=clMenu;
    cbUpps.Enabled:=False;
    {baca prodi}
    cbPrd.Clear;
    with dm1.ADOQuery1 do
    begin
      Active:=false;
      Close;
      SQL.Clear;
      SQL.Text:='select * from tProdi where kd_fak=' + kupps;
      Active:=true;
    end;
  end;
end;

```

```

end;
while not dm1.ADOQuery1.Eof do
begin
    cbPrd.Items.Add(dm1.ADOQuery1.FieldByName('nm_Prd').AsString);
    dm1.ADOQuery1.Next;
end;
cbPrd.Enabled:=True;
cbPrd.SetFocus;
cbPrd.Color:=clWhite;
exit;
end;
end;

```

```

procedure TfrmDana.cbPrdKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        with dm1.ADOQuery1 do
        begin
            Active:=false;
            Close;
            SQL.Clear;
            SQL.Text:='select * from tProdi where nm_Prd =' + QuotedStr(cbPrd.Text);
            Active:=true;
        end;
        kprd:=dm1.ADOQuery1['kd_Prd'];
        cbPrd.Color:=clMenu;
        cbPrd.Enabled:=False;
        cbTAkd.ItemIndex:=-1;
        cbTAkd.Color:=clWhite;
        cbTAkd.Enabled:=True;
        cbTAkd.SetFocus;
        cbTAkd.Text:="";
        Exit;
    end;
end;

```

```

procedure TfrmDana.cbTAkdKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        cbTakd.Color:=clMenu;
        cbTakd.Enabled:=False;
        btnDnMsk.Enabled:=True;
        btnDnKlr.Enabled:=True;
        btnKmbL.Enabled:=True;
        btnDnMsk.SetFocus;
        {hitung spp}
        tsppt:=0;tsppv:=0;tpktt:=0;tpkts:=0;tpktb:=0;tukt:=0;
        with dm1.ADOQuery1 do
        begin

```

```

Active:=false;
Close;
SQL.Clear;
SQL.Text:='select sum(sks)as jsks from tMk where kd_prd='+kprd;
Active:=true;
end;
jSks:=dm1.ADOQuery1['jsks'];
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select count(*) as jmhs from tMhs where ta='+QuotedStr(cbTAkd.Text)+
'and kd_fak='+kupps+'and kd_prd='+kprd;
Active:=true;
end;
jMhs:=dm1.ADOQuery1['jmhs'];
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tMhs where ta='+QuotedStr(cbTAkd.Text)+
'and kd_fak='+kupps+'and kd_prd='+kprd;
Active:=true;
end;
while not dm1.ADOQuery1.Eof do
begin
tsppt:=tsppt+StrToFloat(dm1.ADOQuery1['spp_ttp'])*2;
tsppv:=tsppv+jSks*StrToFloat(dm1.ADOQuery1['spp_var']);
tpktt:=tpktt+StrToFloat(dm1.ADOQuery1['pkt_thn']);
tpkts:=tpkts+StrToFloat(dm1.ADOQuery1['pkt_sem'])*2;
tpktb:=tpktb+StrToFloat(dm1.ADOQuery1['pkt_bln'])*12;
tukt:=tukt+StrToFloat(dm1.ADOQuery1['ukt']);
dm1.ADOQuery1.Next;
end;
tspp:=tspp+tsppt+tsppv+tpktt+tpkts+tpktb+tukt;
Exit;
end;
end;
end;

procedure TfrmDana.btnDnMskClick(Sender: TObject);
begin
eDnLain.Enabled:=True;
eDnLain.Color:=clWhite;
eDnLain.SetFocus;
btnDnMsk.Enabled:=False;
btnDnKlr.Enabled:=False;
btnBatal.Enabled:=True;
eSpp.Text:=FloatToStr(tspp);
eSpp.Text:=FormatFloat('#,#0',tspp);

```

```

    SetWindowLong(eSpp.Handle,GWL_STYLE,GetWindowLong(eSpp.Handle,
    GWL_STYLE) or ES_RIGHT);
end;

procedure TfrmDana.eDnLainKeyPress(Sender: TObject; var Key: Char);
begin
if (Key=chr(13)) then
begin
    btnSmpnDnmSk.Enabled:=True;
    btnSmpnDnMsk.SetFocus;
    eDnLain.Color:=clMenu;
    eDnLain.Enabled:=False;
    dnlain:=StrToFloat(eDnLain.Text);
    eDnlain.Text:=FormatFloat('#,#0',dnlain);
    SetWindowLong(eDnLain.Handle,GWL_STYLE,GetWindowLong(eDnLain.Handle,
    GWL_STYLE) or ES_RIGHT);
    tmsk:=tspp+dnlain;
    eTotMsk.Text:=FormatFloat('#,#0',tmsk);
    SetWindowLong(eTotMsk.Handle,GWL_STYLE,GetWindowLong(eTotMsk.Handle,
    GWL_STYLE) or ES_RIGHT);
    Exit;
end;
end;

procedure TfrmDana.btnDnKlrClick(Sender: TObject);
begin
    eGjDsn.Enabled:=True;
    eGjDsn.Color:=clWhite;
    eGjDsn.SetFocus;
end;

procedure TfrmDana.eGjDsnKeyPress(Sender: TObject; var Key: Char);
begin
if (Key=chr(13)) then
begin
    eGjPeg.Enabled:=True;
    eGjPeg.Color:=clWhite;
    eGjPeg.SetFocus;
    eGjDsn.Color:=clMenu;
    eGjDsn.Enabled:=False;
    gjdsn:=StrToFloat(eGjDsn.Text);
    eGjDsn.Text:=FormatFloat('#,#0',gjdsn);
    SetWindowLong(eGjdsn.Handle,GWL_STYLE,GetWindowLong(eGjDsn.Handle,
    GWL_STYLE) or ES_RIGHT);
    Exit;
end;
end;

procedure TfrmDana.eGjPegKeyPress(Sender: TObject; var Key: Char);
begin
if (Key=chr(13)) then

```

```

begin
  eBeaPbm.Enabled:=True;
  eBeaPbm.Color:=clWhite;
  eBeaPbm.SetFocus;
  eGjPeg.Color:=clMenu;
  eGjPeg.Enabled:=False;
  gjpeg:=StrToFloat(eGjPeg.Text);
  eGjPeg.Text:=FormatFloat('#,#0',gjpeg);
  SetWindowLong(eGjPeg.Handle,GWL_STYLE,GetWindowLong(eGjPeg.Handle,
  GWL_STYLE) or ES_RIGHT);
  Exit;
end;
end;

procedure TfrmDana.eBeaPbmKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
    begin
      eBeaTL.Enabled:=True;
      eBeaTL.Color:=clWhite;
      eBeaTL.SetFocus;
      eBeaPbm.Color:=clMenu;
      eBeaPbm.Enabled:=False;
      beapbm:=StrToFloat(eBeaPbm.Text);
      eBeaPbm.Text:=FormatFloat('#,#0',beapbm);
      SetWindowLong(eBeaPbm.Handle,GWL_STYLE,GetWindowLong(eBeaPbm.Handle,
      GWL_STYLE) or ES_RIGHT);
      Exit;
    end;
end;

procedure TfrmDana.eBeaTLKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
    begin
      eBeaKmhs.Enabled:=True;
      eBeaKmhs.Color:=clWhite;
      eBeaKmhs.SetFocus;
      eBeaTL.Color:=clMenu;
      eBeaTL.Enabled:=False;
      beatl:=StrToFloat(eBeaTL.Text);
      eBeaTL.Text:=FormatFloat('#,#0',beatl);
      SetWindowLong(eBeaTL.Handle,GWL_STYLE,GetWindowLong(eBeaTL.Handle,
      GWL_STYLE) or ES_RIGHT);
      Exit;
    end;
end;

procedure TfrmDana.eBeaKmhsKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then

```

```

begin
  eBeaPnl.Enabled:=True;
  eBeaPnl.Color:=clWhite;
  eBeaPnl.SetFocus;
  eBeaKmhs.Color:=clMenu;
  eBeaKmhs.Enabled:=False;
  beakmhs:=StrToFloat(eBeaKmhs.Text);
  eBeaKmhs.Text:=FormatFloat('#,#0',beakmhs);
  SetWindowLong(eBeaKmhs.Handle,GWL_STYLE,GetWindowLong(eBeaKmhs.Handle,
  GWL_STYLE) or ES_RIGHT);
  Exit;
end;
end;

```

```

procedure TfrmDana.eBeaPnlKeyPress(Sender: TObject; var Key: Char);

```

```

begin
  tbop:=gidsn+gipeg+beapbm+beatl+beakmhs;
  eTotBop.Text:=FormatFloat('#,#0',tbop);
  SetWindowLong(eTotBop.Handle,GWL_STYLE,GetWindowLong(eTotBop.Handle,
  GWL_STYLE) or ES_RIGHT);
  if (Key=chr(13)) then
  begin
    eBeaPkm.Enabled:=True;
    eBeaPkm.Color:=clWhite;
    eBeaPkm.SetFocus;
    eBeaPnl.Color:=clMenu;
    eBeaPnl.Enabled:=False;
    beapnl:=StrToFloat(eBeaPnl.Text);
    eBeaPnl.Text:=FormatFloat('#,#0',beapnl);
    SetWindowLong(eBeaPnl.Handle,GWL_STYLE,GetWindowLong(eBeaPnl.Handle,
    GWL_STYLE) or ES_RIGHT);
    Exit;
  end;
end;

```

```

procedure TfrmDana.eBeaPkmKeyPress(Sender: TObject; var Key: Char);

```

```

begin
  if (Key=chr(13)) then
  begin
    eBeaInv.Enabled:=True;
    eBeaInv.Color:=clWhite;
    eBeaInv.SetFocus;
    eBeaPkm.Color:=clMenu;
    eBeaPkm.Enabled:=False;
    beapkm:=StrToFloat(eBeaPkm.Text);
    eBeaPkm.Text:=FormatFloat('#,#0',beapkm);
    SetWindowLong(eBeaPkm.Handle,GWL_STYLE,GetWindowLong(eBeaPkm.Handle,
    GWL_STYLE) or ES_RIGHT);
    Exit;
  end;
end;

```

```
end;
```

```
procedure TfrmDana.eBeaInvKeyPress(Sender: TObject; var Key: Char);  
begin  
if (Key=chr(13)) then  
begin  
btnSmpnDnKlr.Enabled:=True;  
btnSmpnDnKlr.SetFocus;  
eBeaInv.Color:=clMenu;  
eBeaInv.Enabled:=False;  
beainv:=StrToFloat(eBeaInv.Text);  
eBeaInv.Text:=FormatFloat('#,#0',beainv);  
SetWindowLong(eBeaInv.Handle,GWL_STYLE,GetWindowLong(eBeaInv.Handle,  
GWL_STYLE) or ES_RIGHT);  
tpnglr:=beapnlt+beapkm+beainv;  
eTotKlr.Text:=FormatFloat('#,#0',tpnglr);  
SetWindowLong(eTotKlr.Handle,GWL_STYLE,GetWindowLong(eTotklr.Handle,  
GWL_STYLE) or ES_RIGHT);  
Exit;  
end;  
end;
```

```
procedure TfrmDana.btnSmpnDnKlrClick(Sender: TObject);  
begin  
{simpan}  
try dm1.ADOConnection1.BeginTrans;  
with dm1.ADOQuery1 do  
begin  
Active:=False;  
Close;  
SQL.Clear;  
SQL.Text:='insert into tDana(ta,kd_prd,spp,dn_lain,gj_dsn,gj_peg,pbm,bea_tl,'  
+'kmhs,pnlt,pkm,inv) values('+QuotedStr(cbTAkd.Text)+','  
+'kprd'+','+FloatToStr(tspp)+'+','+FloatToStr(dnlain)+'+','+FloatToStr(gjdsn)+'+','  
+'+FloatToStr(gjpeg)+'+','+FloatToStr(beapbm)+'+','+FloatToStr(beatl)+'+','+FloatToStr(beakmhs)+'+','  
+'+FloatToStr(beapnlt)+'+','+FloatToStr(beapkm)+'+','+FloatToStr(beainv)+'+');  
ExecSQL;  
end;  
dm1.ADOConnection1.CommitTrans;  
ShowMessage('Data Tersimpan');  
except dm1.ADOConnection1.RollbackTrans;  
ShowMessage('Gagal Simpan');  
end;  
end;
```

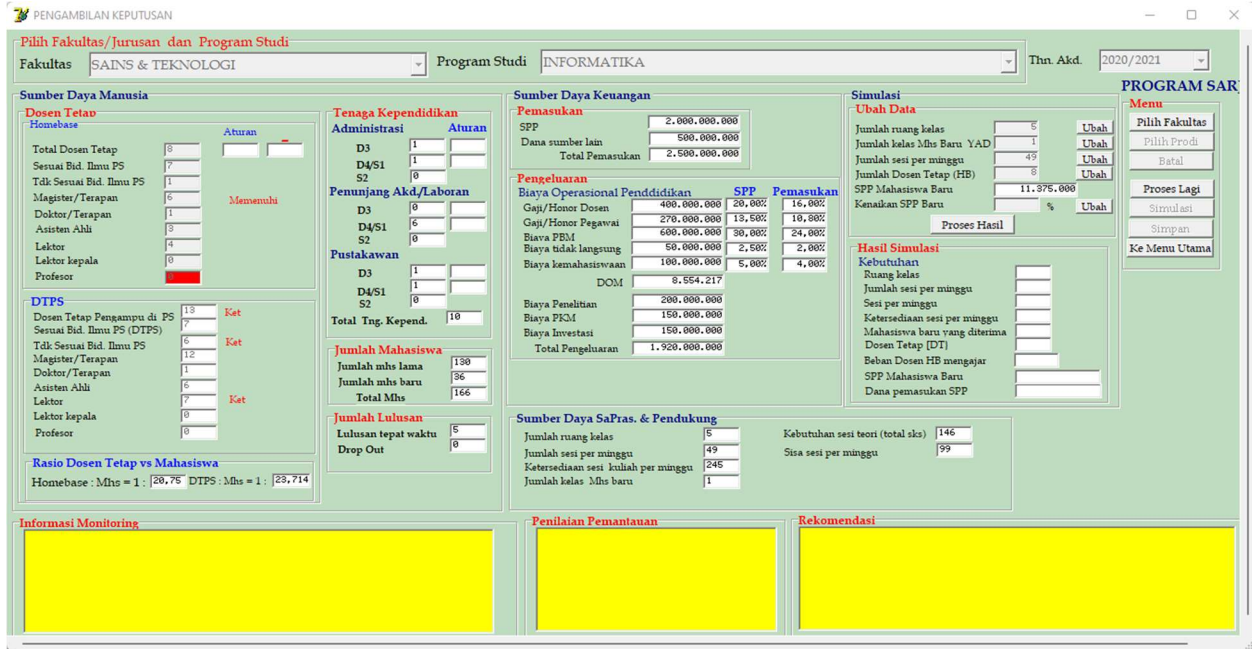
```
procedure TfrmDana.btnBatalClick(Sender: TObject);  
begin  
FormCreate(Sender );  
end;
```

```
procedure TfrmDana.btnKmb1Click(Sender: TObject);
```

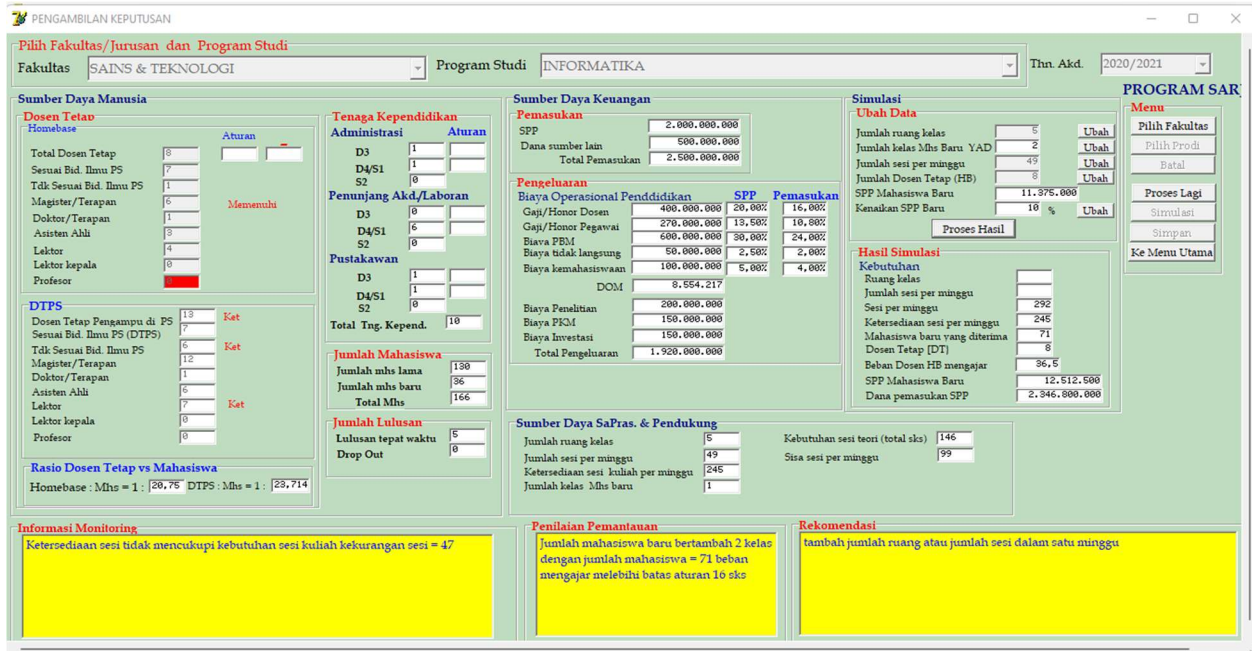
```

begin
  frmDana.Close;
  FormCreate(Sender);
end;
end.

```



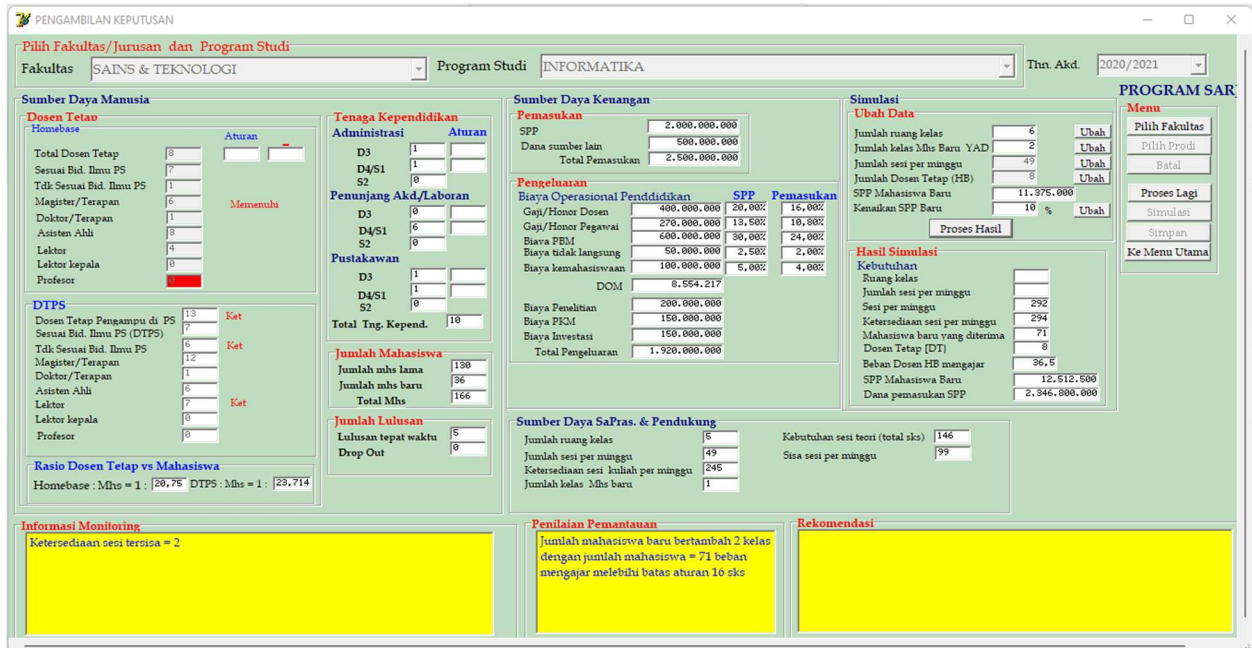
Gambar 15 a. Dashboard Laporan 1 Tahun Akademik



Gambar 15b. Simulasi mengubah jumlah kelas mhs baru menjadi 2 kelas dan spp naik 10 %



Masih kekurangan sesi dapat dilakukan dengan menambah ruang kelas atau menambah jumlah sesi per minggu



Gambar 15c. Hasil simulasi

## #Form Tampilan Sub Menu DashBoard Laporan Sumber Daya dalam Satu Tahun Akademik dan Simulasi

unit uSPK;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms, Dialogs, StdCtrls;

type

```
TfrmKeputusan = class(TForm)
  GroupBox4: TGroupBox;
  Label5: TLabel;
  Label6: TLabel;
  cbUpps: TComboBox;
  cbPrd: TComboBox;
  GroupBox2: TGroupBox;
  btnSimpan: TButton;
  btnKmb1: TButton;
  btnPrd: TButton;
  btnFak: TButton;
  btnLagi: TButton;
  lblProg: TLabel;
  GroupBox3: TGroupBox;
```

mRekom: TMemo;  
btnTAkd: TButton;  
Label21: TLabel;  
GroupBox7: TGroupBox;  
cbTAkd: TComboBox;  
GroupBox10: TGroupBox;  
GroupBox11: TGroupBox;  
GroupBox1: TGroupBox;  
GroupBox5: TGroupBox;  
lKetTot: TLabel;  
lKetIl: TLabel;  
lKetPrf: TLabel;  
Label3: TLabel;  
Label4: TLabel;  
Label7: TLabel;  
Label8: TLabel;  
Label9: TLabel;  
Label10: TLabel;  
Label42: TLabel;  
Label43: TLabel;  
eTdsnT: TEdit;  
eJdsnTPs: TEdit;  
eJdsnTtPs: TEdit;  
eS2: TEdit;  
eS3: TEdit;  
eProf: TEdit;  
Edit35: TEdit;  
Edit36: TEdit;  
GroupBox6: TGroupBox;  
Label13: TLabel;  
Label14: TLabel;  
Label19: TLabel;  
Label11: TLabel;  
Label12: TLabel;  
Label16: TLabel;  
Label17: TLabel;  
Label18: TLabel;  
Label15: TLabel;  
eTDtps: TEdit;  
eDtpsIL: TEdit;  
eDtpsTIL: TEdit;  
eDtpsS2: TEdit;  
eDtpsS3: TEdit;  
eDtpsPrf: TEdit;  
GroupBox9: TGroupBox;  
Label44: TLabel;  
Label45: TLabel;  
eRHome: TEdit;  
eRDtps: TEdit;  
GroupBox8: TGroupBox;  
Label32: TLabel;

Label33: TLabel;  
Edit21: TEdit;  
Edit22: TEdit;  
Edit23: TEdit;  
Edit24: TEdit;  
Edit25: TEdit;  
Edit26: TEdit;  
Edit27: TEdit;  
eMhsLm: TEdit;  
eMhsBr: TEdit;  
GroupBox12: TGroupBox;  
Label41: TLabel;  
eTkAdmD3: TEdit;  
Label37: TLabel;  
eTkAdmS1: TEdit;  
eTkAdmS2: TEdit;  
Label38: TLabel;  
Label35: TLabel;  
Label34: TLabel;  
Label36: TLabel;  
Label39: TLabel;  
Label40: TLabel;  
eTkAkdD3: TEdit;  
eTkAkdS1: TEdit;  
eTkAkdS2: TEdit;  
Label46: TLabel;  
Label47: TLabel;  
eTkPusD3: TEdit;  
eTkPusS1: TEdit;  
Label48: TLabel;  
Label49: TLabel;  
eTkPusS2: TEdit;  
Label50: TLabel;  
eTotTK: TEdit;  
Edit44: TEdit;  
Label51: TLabel;  
Edit45: TEdit;  
Edit46: TEdit;  
Edit47: TEdit;  
Edit48: TEdit;  
Edit49: TEdit;  
GroupBox13: TGroupBox;  
Label22: TLabel;  
eSpp: TEdit;  
GroupBox14: TGroupBox;  
Label25: TLabel;  
Label30: TLabel;  
eGjdsn: TEdit;  
eGjPeg: TEdit;  
Label52: TLabel;  
Label53: TLabel;

Label23: TLabel;  
Label26: TLabel;  
Label27: TLabel;  
Label28: TLabel;  
Label29: TLabel;  
eTL: TEdit;  
ePbm: TEdit;  
ePnlt: TEdit;  
eKmhS: TEdit;  
eInv: TEdit;  
ePkm: TEdit;  
Label31: TLabel;  
eTotKlr: TEdit;  
Label54: TLabel;  
eTotMsk: TEdit;  
Label55: TLabel;  
eDnLain: TEdit;  
Label56: TLabel;  
eJMhs: TEdit;  
GroupBox15: TGroupBox;  
Label57: TLabel;  
eJRkls: TEdit;  
Label58: TLabel;  
eTSks: TEdit;  
Label59: TLabel;  
eStkSesi: TEdit;  
Label61: TLabel;  
eDom: TEdit;  
GroupBox16: TGroupBox;  
Label60: TLabel;  
Label62: TLabel;  
Label64: TLabel;  
eURKls: TEdit;  
eUSesi: TEdit;  
eUDsnT: TEdit;  
GroupBox17: TGroupBox;  
Label65: TLabel;  
Label66: TLabel;  
Label67: TLabel;  
Label68: TLabel;  
eHRkls: TEdit;  
eHJSesi: TEdit;  
eHMhs: TEdit;  
eHDT: TEdit;  
Label69: TLabel;  
eUSppBr: TEdit;  
btnURkls: TButton;  
btnUsesi: TButton;  
btnUDsnT: TButton;  
btnUSpp: TButton;  
Label70: TLabel;

eHDnMsk: TEdit;  
Label72: TLabel;  
eAA: TEdit;  
Label73: TLabel;  
eLek: TEdit;  
Label74: TLabel;  
eLK: TEdit;  
Label75: TLabel;  
Label76: TLabel;  
Label77: TLabel;  
eDtpsAA: TEdit;  
eDtpsLek: TEdit;  
eDtpsLK: TEdit;  
Label79: TLabel;  
GroupBox18: TGroupBox;  
Label81: TLabel;  
Label82: TLabel;  
Edit1: TEdit;  
Edit3: TEdit;  
Edit4: TEdit;  
Edit5: TEdit;  
Edit6: TEdit;  
Edit7: TEdit;  
Edit30: TEdit;  
eTptWkt: TEdit;  
eDO: TEdit;  
GroupBox19: TGroupBox;  
mPantau: TMemo;  
GroupBox20: TGroupBox;  
mInfo: TMemo;  
Label84: TLabel;  
Label86: TLabel;  
eSsSesi: TEdit;  
Label87: TLabel;  
eJSesi: TEdit;  
Label88: TLabel;  
eJKls: TEdit;  
Label20: TLabel;  
Label89: TLabel;  
ePgjdsn1: TEdit;  
ePGjPeg1: TEdit;  
ePGjPeg2: TEdit;  
ePgjDsn2: TEdit;  
ePPbm1: TEdit;  
ePPbm2: TEdit;  
ePTL1: TEdit;  
ePKmhs1: TEdit;  
ePKmhs2: TEdit;  
ePTL2: TEdit;  
Label90: TLabel;  
eUJKls: TEdit;

```

btnUJkls: TButton;
Label91: TLabel;
eHbbngjr: TEdit;
Label92: TLabel;
eHBthSesi: TEdit;
btnProses: TButton;
btnBatal: TButton;
Label24: TLabel;
eHSdnSesi: TEdit;
Label63: TLabel;
eSppBr: TEdit;
Label71: TLabel;
eHSppbr: TEdit;
Label78: TLabel;
procedure btnKmb1Click(Sender: TObject);
procedure FormCreate(Sender: TObject);
procedure btnFakClick(Sender: TObject);
procedure cbNmDsnKeyPress(Sender: TObject; var Key: Char);
procedure mRekomKeyPress(Sender: TObject; var Key: Char);
procedure cbUppsKeyPress(Sender: TObject; var Key: Char);
procedure cbPrdKeyPress(Sender: TObject; var Key: Char);
procedure cbTAKdKeyPress(Sender: TObject; var Key: Char);
procedure btnURklsClick(Sender: TObject);
procedure eURklsKeyPress(Sender: TObject; var Key: Char);
procedure btnProsesClick(Sender: TObject);
procedure btnUJklsClick(Sender: TObject);
procedure btnUsesiClick(Sender: TObject);
procedure eUJklsKeyPress(Sender: TObject; var Key: Char);
procedure eUSesiKeyPress(Sender: TObject; var Key: Char);
procedure btnUDsnTClick(Sender: TObject);
procedure eUDsnTKeyPress(Sender: TObject; var Key: Char);
procedure btnUSppClick(Sender: TObject);
procedure eUSppBrKeyPress(Sender: TObject; var Key: Char);
private
  { Private declarations }
public
  { Public declarations }
end;
var
  frmKeputusan: TfrmKeputusan;
  kupps,kprd,kilmuprd,kprog,kilmudsn,kta      : String[10];
  ljdsn,PotTa,tm                             : String[6];
  n,jdsntp,jdtps,jts2,jts3,jtprof,jaa,jlkt,jlk,jprof  : integer;
  jMhs,jKls,jadmd3,jadmd4,jadms2,jlabd3,jlabd4,jlabs2,
  jpusd3,jpusd4,jpuss2,totpend,hsdnsesi,hbthsesi,ujkls,
  urkls, usesi,ujdsn                          : integer;
  jMhsBr,jMhsLm,jrkl,tsks,jsesi,tsesi,sssesi,hjmhsbr  : integer;
  spp,dnlain,rhome,rtps,hsssesi,ubbingjr          : real;
  gjdsn,gjpeg,pbm,beatl,kmhs,pnlt,pkm,inv,bop,dom,totklr,totmsk : real;
  pgjdsn1,pgjpeg1,ppbm1,ptl1,pkmhs1,ppnlt1,ppkm1,pinv1,
  pgjdsn2,pgjpeg2,ppbm2,ptl2,pkmhs2,ppnlt2,ppkm2,pinv2  : real;

```

```
tgl,tglls : string[15];
tnggl,bln,thn,ts,tsaktif,tllstptwkt,jtwkt,tdo,jtdo,jsks : integer;
bbngjr,hbbngjr,pctsp,spbr,avguktbr,naikspbr,hspbr,usppbr : real;
tsppt,tsppv,tpktt,tpkts,tpktb,tukt,tspp : real;
```

implementation

uses udm;

{ \$R \*.dfm }

```
procedure TfrmKeputusan.FormCreate(Sender: TObject);
begin
```

```
    cbUpps.Enabled:=True;
    cbPrd.Enabled:=False;
    cbTakd.Enabled:=False;
    eTdsnT.Enabled:=False;
    eJdsnTPs.Enabled:=False;
    eJdsnTtPs.Enabled:=False;
    eS2.Enabled:=False;
    eS3.Enabled:=False;
    eAA.Enabled:=False;
    eLek.Enabled:=False;
    eLK.Enabled:=False;
    eProf.Enabled:=False;
    eTDtps.Enabled:=False;
    eDtpsIL.Enabled:=False;
    eDtpsTIL.Enabled:=False;
    eDtpsS2.Enabled:=False;
    eDtpsS3.Enabled:=False;
    eDtpsAA.Enabled:=False;
    eDtpsLek.Enabled:=False;
    eDtpsLK.Enabled:=False;
    eDtpsPrf.Enabled:=False;
```

```
    eURkls.Enabled:=False;
    eUJkls.Enabled:=False;
    eUSesi.Enabled:=False;
    eUDsnT.Enabled:=False;
    eUSppbr.Enabled:=False;
```

```
    cbUpps.Color:=clWhite;
    cbPrd.Color:=clMenu;
    cbTAkd.Color:=clMenu;
    eTdsnT.Color:=clMenu;
    eJdsnTPs.Color:=clMenu;
    eJdsnTtPs.Color:=clMenu;
    eS2.Color:=clMenu;
```

```
eS3.Color:=clMenu;  
eAA.Color:=clMenu;  
eLek.Color:=clMenu;  
eLK.Color:=clMenu;  
eProf.Color:=clMenu;
```

```
eURkls.Color:=clMenu;  
eUJKls.Color:=clMenu;  
eUSesi.Color:=clMenu;  
eUDsnT.Color:=clMenu;  
eUSppBr.Color:=clMenu;
```

```
cbUpps.Clear;  
cbPrd.Clear;  
eTdsnT.Clear;  
eJdsnTPs.Clear;  
eJdsnTtPs.Clear;  
lblProg.Caption:='PROGRAM';  
lKetTot.Caption:="";  
lKetII.Caption:="";  
lKetPrf.Caption:="";  
eS2.Clear;  
eS3.Clear;  
eAA.Clear;  
eLek.Clear;  
eLK.Clear;  
eProf.Clear;
```

```
eURkls.Clear;  
eUJKls.Clear;  
eUSesi.Clear;  
eUDsnT.Clear;  
eUSppBr.Clear;
```

```
btnFak.Enabled:=False;  
btnPrd.Enabled:=False;  
btntAkd.Enabled:=False;  
btnBatal.Enabled:=False;  
btnSimpan.Enabled:=False;  
btnKmbI.Enabled:=True;  
{ btnRefresh.Enabled:=False;}
```

```
with dm1.ADOQuery1 do  
begin  
  Active:=false;  
  Close;  
  SQL.Clear;  
  SQL.Text:='select * from tFak';
```

```
  Active:=true;  
end;
```



```

while not dm1.ADOquery1.Eof do
begin
  cbUpps.Items.Add(dm1.ADOquery1.FieldByName('nm_Fak').AsString);
  dm1.ADOquery1.Next;
end;

end;

procedure TfrmKeputusan.cbUppsKeyPress(Sender: TObject; var Key: Char);
begin
  if (Key=chr(13)) then
  begin
    with dm1.ADOQuery1 do
    begin
      Active:=false;
      Close;
      SQL.Clear;
      SQL.Text:='select * from tFak where nm_Fak =' + QuotedStr(cbUpps.Text);
      Active:=true;
    end;
    kupps:=dm1.ADOquery1['kd_Fak'];

    cbUpps.Color:=clMenu;
    cbUpps.Enabled:=False;

    {prodi}
    cbPrd.Clear;
    with dm1.ADOQuery1 do
    begin
      Active:=false;
      Close;
      SQL.Clear;
      SQL.Text:='select * from tProdi where kd_fak='+kupps;
      Active:=true;
    end;
    while not dm1.ADOquery1.Eof do
    begin
      cbPrd.Items.Add(dm1.ADOquery1.FieldByName('nm_Prd').AsString);
      dm1.ADOquery1.Next;
    end;

    cbPrd.Enabled:=True;
    cbPrd.SetFocus;
    cbPrd.Color:=clWhite;
    exit;

  end;
end;

procedure TfrmKeputusan.cbPrdKeyPress(Sender: TObject; var Key: Char);

```

```

begin
if (Key=chr(13)) then
begin
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tProdi where nm_Prd =' + QuotedStr(cbPrd.Text);
Active:=true;
end;
kprd:=dm1.ADOQuery1['kd_Prd'];
kilmuprd:=dm1.ADOQuery1['kd_ilmu'];
kprog:=dm1.ADOQuery1['prog'];

if kprog='DIPLOMA 1' then lblProg.Caption:='PROGRAM DIPLOMA 1';
if kprog='DIPLOMA 2' then lblProg.Caption:='PROGRAM DIPLOMA 2';
if kprog='DIPLOMA 3' then lblProg.Caption:='PROGRAM DIPLOMA 3';
if kprog='DIPLOMA 4' then lblProg.Caption:='PROGRAM DIPLOMA 4';
if kprog='SARJANA' then lblProg.Caption:='PROGRAM SARJANA';
if kprog='PROFESI' then lblProg.Caption:='PROGRAM PROFESI';
if kprog='MAGISTER' then lblProg.Caption:='PROGRAM MAGISTER';
if kprog='MAGISTER TERAPAN' then lblProg.Caption:='PROGRAM MAGISTER TERAPAN';
if kprog='SPESIALIS/SUB SPESIALIS' then lblProg.Caption:='SPESIALIS/SUB SPESIALIS';
if kprog='DOKTOR' then lblProg.Caption:='PROGRAM DOKTOR';
if kprog='DOKTOR TERAPAN' then lblProg.Caption:='PROGRAM DOKTOR TERAPAN';

{baca ilmu}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tDsnT where kd_Prd =' + kprd;
Active:=true;
end;
if dm1.ADOQuery1['kd_ilmu'] <> null then
kilmudsn:=dm1.ADOQuery1['kd_ilmu'];
cbPrd.Color:=clMenu;
cbPrd.Enabled:=False;
cbTAkd.ItemIndex:=-1;
cbTAkd.Color:=clWhite;
cbTAkd.Enabled:=True;
cbTAkd.SetFocus;
cbTAkd.Text:='';
Exit;

end;
end;

procedure TfrmKeputusan.cbTAkdKeyPress(Sender: TObject; var Key: Char);

```

```

begin
jadmd3:=0;jadmd4:=0;jadms2:=0;jlabd3:=0;jlabd4:=0;jlabs2:=0;
jpusd3:=0;jpusd4:=0;jpuss2:=0;
if (Key=chr(13)) then
begin
kta:=cbTAkd.Text;
tm:=copy(cbTAkd.Text,1,4);
{Homebase}
{1. total dosen}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select count(*) as jtdsnt from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd;
Active:=true;
end;
eTdsnT.Text:=dm1.ADOQuery1['jtdsnt'];
jdsnttp:=StrToInt(eTdsnT.Text);

if dm1.ADOQuery1['jtdsnt']<5 then
IKetTot.Caption:='Tidak memenuhi! Minimal 5 Dosen'
else
IKetTot.Caption:='Memenuhi';
{1a dosen sesuai ilmu}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select count(*) as jdsntk from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd+
'and tProdi.kd_ilmu=tDsnT.kd_ilmu';
Active:=true;
end;
eJdsnTPs.Text:=dm1.ADOQuery1['jdsntk'];
if dm1.ADOQuery1['jdsntk']<5 then IKetII.Caption:='Minimal 5 Dosen';

{1b dosen tidak sesuai bid ilmu.....}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select count(*) as jdsnttk from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd+
'and tProdi.kd_ilmu<>tDsnT.kd_ilmu';
Active:=true;
end;
eJdsnTtPs.Text:=dm1.ADOQuery1['jdsnttk'];

```

```

{daftar nya nama tidak sesuai bid. ilmu.....}
{ if dm1.ADOQuery1['jdsnttk']>=1 then
begin
cbNmDsn.Enabled:=True;
cbNmDsn.Color:=clWhite;
with dm1.ADOQuery2 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd+
'and tProdi.kd_ilmu<>tDsnT.kd_ilmu';
Active:=true;
end;
while not dm1.ADOQuery2.Eof do
begin
cbNmDsn.Items.Add(dm1.ADOQuery2.FieldByName('nm_dsn').AsString);
dm1.ADOQuery2.Next;
end;
end; }

{1c s2}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select count(*) as jts2 from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd+
'and tProdi.kd_ilmu=tDsnT.kd_ilmu and tDsnT.pen_akhir='+QuotedStr('MAGISTER(S2)');
Active:=true;
end;
eS2.Text:=dm1.ADOQuery1['jts2'];

{1d s3}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select count(*) as jts3 from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd+
'and tProdi.kd_ilmu=tDsnT.kd_ilmu and tDsnT.pen_akhir='+QuotedStr('DOKTOR (S3)');
Active:=true;
end;
eS3.Text:=dm1.ADOQuery1['jts3'];
{1e jml S3}
with dm1.ADOQuery1 do
begin

```

```

Active:=false;
Close;
SQL.Clear;
SQL.Text:='select count(*) as jtprof from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd+
'and tProdi.kd_ilmu=tDsnT.kd_ilmu and tDsnT.jafa='+QuotedStr('PROFESOR');
Active:=true;
end;
eProf.Text:=dm1.ADOQuery1['jtprof'];
if (kprog='DOKTOR') or (kprog='DOKTOR TERAPAN') then
begin
  eprof.Color:=clMenu;
  if jtprof<2 then
    IKetPrf.Caption:='Tidak Memenuhi! Minimal 2'
  else
    IKetPrf.Caption:='Tidak Memenuhi! Minimal 2';
end
else
begin
  eProf.Color:=clRed;
  eProf.Text:='';
end;
{1f AA}
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select count(*) as jaa from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd+
'and tProdi.kd_ilmu=tDsnT.kd_ilmu and tDsnT.jafa='+QuotedStr('ASISTEN AHLI');
  Active:=true;
end;
eAA.Text:=dm1.ADOQuery1['jaa'];
{1g lek}
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select count(*) as jlkt from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd+
'and tProdi.kd_ilmu=tDsnT.kd_ilmu and tDsnT.jafa='+QuotedStr('LEKTOR');
  Active:=true;
end;
eLek.Text:=dm1.ADOQuery1['jlkt'];
{1h lk}
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;

```

```

SQL.Clear;
SQL.Text:='select count(*) as jlk from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd+
'and tProdi.kd_ilmu=tDsnT.kd_ilmu and tDsnT.jafa='+QuotedStr('LEKTOR KEPALA');
Active:=true;
end;
eLK.Text:=dm1.ADOQuery1['jlk'];
{1i prof}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select count(*) as jprf from tDsnT inner join tProdi '+'
'on tProdi.kd_prd=tDsnT.kd_prd where tProdi.kd_prd='+kprd+
'and tProdi.kd_ilmu=tDsnT.kd_ilmu and tDsnT.jafa='+QuotedStr('PROFESOR');
Active:=true;
end;
eProf.Text:=dm1.ADOQuery1['jprf'];

{2 DTPS.....}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select COUNT(DISTINCT nm_dsn)as dtps '+'
'from tPbm inner join tDsnT on tDsnT.nidn=tPbm.nidn';
Active:=true;
end;
eTDtps.Text:=dm1.ADOQuery1['dtps'];
{2a dosen bid ilmu.....}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select COUNT(DISTINCT nm_dsn)as dtps '+'
'from tPbm inner join tDsnT on tDsnT.nidn=tPbm.nidn where '+'
'tPbm.kd_ilmu=tDsnT.kd_ilmu';
Active:=true;
end;
jdtps:=StrToInt(dm1.ADOQuery1['dtps']);
eDtpsIL.Text:=dm1.ADOQuery1['dtps'];
{2b dosen tidak sesuai bid ilmu.....}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select COUNT(DISTINCT nm_dsn)as dtps '+'

```

```

'from tPbm inner join tDsnT on tDsnT.nidn=tPbm.nidn where '+
'tPbm.kd_ilmu<>tDsnT.kd_ilmu';
Active:=true;
end;
eDtpsTIL.Text:=dm1.ADOQuery1['dtps'];

{2c s2}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select COUNT(DISTINCT nm_dsn)as dtps '+
'from tPbm inner join tDsnT on tDsnT.nidn=tPbm.nidn where tDsnT.pen_akhir='
+QuotedStr('MAGISTER(S2)');
Active:=true;
end;
eDtpsS2.Text:=dm1.ADOQuery1['dtps'];
{2d s3}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select COUNT(DISTINCT nm_dsn)as dtps '+
'from tPbm inner join tDsnT on tDsnT.nidn=tPbm.nidn where tDsnT.pen_akhir='
+QuotedStr('DOKTOR (S3)');
Active:=true;
end;
eDtpsS3.Text:=dm1.ADOQuery1['dtps'];
{2e AA}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select COUNT(DISTINCT nm_dsn)as dtps '+
'from tPbm inner join tDsnT on tDsnT.nidn=tPbm.nidn where tDsnT.jafa='
+QuotedStr('ASISTEN AHLI');
Active:=true;
end;
eDtpsAA.Text:=dm1.ADOQuery1['dtps'];
{2f lek}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select COUNT(DISTINCT nm_dsn)as dtps '+
'from tPbm inner join tDsnT on tDsnT.nidn=tPbm.nidn where tDsnT.jafa='
+QuotedStr('LEKTOR');

```

```

Active:=true;
end;
eDtpsLek.Text:=dm1.ADOQuery1['dtps'];
{2g lk}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select COUNT(DISTINCT nm_dsn)as dtps '+
'from tPbm inner join tDsnT on tDsnT.nidn=tPbm.nidn where tDsnT.jafa='
+QuotedStr('LEKTOR KEPALA');
Active:=true;
end;
eDtpsLK.Text:=dm1.ADOQuery1['dtps'];
{1i prof}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select COUNT(DISTINCT nm_dsn)as dtps '+
'from tPbm inner join tDsnT on tDsnT.nidn=tPbm.nidn where tDsnT.jafa='
+QuotedStr('PROFESOR');
Active:=true;
end;
eDtpsPrf.Text:=dm1.ADOQuery1['dtps'];
{3 tendik}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tTpend';
Active:=true;
end;
while not dm1.ADOQuery1.Eof do
begin
if (dm1.ADOQuery1['pend']='DIPLOMA(D3)')and
(dm1.ADOQuery1['ahli']='ADMINISTRASI') then jadmd3:=jadmd3+1;
if ((dm1.ADOQuery1['pend']='SARJANA(S1)')or
(dm1.ADOQuery1['pend']='SARJANA TERAPAN(D4)'))and
(dm1.ADOQuery1['ahli']='ADMINISTRASI') then jadmd4:=jadmd4+1;
if (dm1.ADOQuery1['pend']='MAGISTER(S2)')and
(dm1.ADOQuery1['ahli']='ADMINISTRASI') then jadms2:=jadmd3+1;
if (dm1.ADOQuery1['pend']='DIPLOMA(D3)')and
(dm1.ADOQuery1['ahli']='LABORAN') then jlabd3:=jlabd3+1;
if ((dm1.ADOQuery1['pend']='SARJANA(S1)')and
(dm1.ADOQuery1['pend']='SARJANA TERAPAN(D4)'))or
(dm1.ADOQuery1['ahli']='LABORAN') then jlabd4:=jlabd4+1;
if (dm1.ADOQuery1['pend']='MAGISTER(S2)')and

```



```

        (dm1.ADOQuery1['ahli']='LABORAN') then jlabs2:=jlabs2+1;
if (dm1.ADOQuery1['pend']='DIPLOMA(D3)')and
    (dm1.ADOQuery1['ahli']='PUSTAKAWAN') then jpusd3:=jpusd3+1;
if ((dm1.ADOQuery1['pend']='SARJANA(S1)')or
    (dm1.ADOQuery1['pend']='SARJANA TERAPAN(D4)'))and
    (dm1.ADOQuery1['ahli']='PUSTAKAWAN') then jpusd4:=jpusd4+1;
if (dm1.ADOQuery1['pend']='MAGISTER(S2)')and
    (dm1.ADOQuery1['ahli']='PUSTAKAWAN') then jpuss2:=jpuss2+1;
dm1.ADOQuery1.Next;
end;
totpend:=jadmd3+jadmd4+jadms2+jlabd3+jlabd4+jlabs2+jpusd3+jpusd4+jpuss2;
eTkAdmD3.Text:=IntToStr(jadmd3);
eTkAdmS1.Text:=IntToStr(jadmd4);
eTkAdmS2.Text:=IntToStr(jadms2);
eTkAkdD3.Text:=IntToStr(jlabd3);
eTkAkdS1.Text:=IntToStr(jlabd4);
eTkAkdS2.Text:=IntToStr(jlabs2);
eTkPusD3.Text:=IntToStr(jpusd3);
eTkPusS1.Text:=IntToStr(jpusd4);
eTkPusS2.Text:=IntToStr(jpuss2);
eTotTK.Text:=IntToStr(totpend);
{4 mhs}
tm:=copy(cbTAkd.Text,1,4);
with dm1.ADOQuery1 do
begin
    Active:=false;
    Close;
    SQL.Clear;
    SQL.Text:='select count(*) as jmhsbr from tMhs where ta='+QuotedStr(cbTAkd.Text)+'
    'and tm='+tm+'and kd_fak='+kupps+'and kd_prd='+kprd;
    Active:=true;
end;
jMhsBr:=dm1.ADOQuery1['jmhsbr'];
with dm1.ADOQuery1 do
begin
    Active:=false;
    Close;
    SQL.Clear;
    SQL.Text:='select * from tMhs where ta='+QuotedStr(cbTAkd.Text)+'
    'and kd_fak='+kupps+'and kd_prd='+kprd;
    Active:=true;
end;
jMhs:=dm1.ADOQuery1.RecordCount;
jMhsLm:=jMhs-jMhsBr;
eMhsLm.Text:=IntToStr(jMhsLm);
eMhsBr.Text:=IntToStr(jMhsBr);
eJMhs.Text:=IntToStr(jMhs);
{5 lulusan}
jtwkt:=0;jtdo:=0;
with dm1.ADOQuery2 do
begin

```

```

Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tMhs where tgl_ills is not NULL';
Active:=true;
end;
{....."....."}
ts:=StrToInt(copy(dm1.ADOQuery2['ta'],1,4));
tsaktif:=ts-3;
tgl:=dm1.ADOQuery2['tgl_ills'];
thn:=StrToInt(copy(tgl,1,4));
tllstptwkt:=thn-4;
tdo:=thn-7;
while not dm1.ADOQuery2.Eof do
begin
if StrToInt(dm1.ADOQuery2['tm']) = tllstptwkt then jtwkt:=jtwkt+1;
if StrToInt(dm1.ADOQuery2['tm']) = tdo then jtdo:=jtdo+1;
dm1.ADOQuery2.Next;
end;
eTptWkt.Text:=IntToStr(jtwkt);
eDo.Text:=IntToStr(jtdo);
{6 rasio dosen mhs}
rhome:=jMhs/jdsnttp;
eRHome.Text:=FloatToStr(rhome);
rdtps:=jMhs/jdtps;
eRDtps.Text:=FloatToStr(rdtps);
{7 sdk masuk}
with dm1.ADOQuery1 do
begin
Active:=false;
Close;
SQL.Clear;
SQL.Text:='select * from tDana where ta='+QuotedStr(cbTAkd.Text)+'
and kd_prd='+kprd;
Active:=true;
end;
spp:=dm1.ADOQuery1['spp'];
dnlain:=dm1.ADOQuery1['dn_lain'];
eSpp.Text:=FormatFloat('#,#0',dm1.ADOQuery1['spp']);
SetWindowLong(eSpp.Handle,GWL_STYLE,GetWindowLong(eSpp.Handle,
GWL_STYLE) or ES_RIGHT);
eDnLain.Text:=FormatFloat('#,#0',dm1.ADOQuery1['dn_lain']);
SetWindowLong(eDnLain.Handle,GWL_STYLE,GetWindowLong(ednLain.Handle,
GWL_STYLE) or ES_RIGHT);
totmsk:=spp+dnlain;
eTotMsk.Text:=FormatFloat('#,#0',totmsk);
SetWindowLong(eTotMsk.Handle,GWL_STYLE,GetWindowLong(eTotMsk.Handle,
GWL_STYLE) or ES_RIGHT);
{8 sdk keluar}
gjdsn:=dm1.ADOQuery1['gj_dsn'];
gjpeg:=dm1.ADOQuery1['gj_peg'];

```

```

pbm:=dm1.ADOQuery1['pbm'];
beatl:=dm1.ADOQuery1['bea_tl'];
kmhs:=dm1.ADOQuery1['kmhs'];
pnlt:=dm1.ADOQuery1['pnlt'];
pkm:=dm1.ADOQuery1['pkm'];
inv:=dm1.ADOQuery1['inv'];
eGjDsn.Text:=FormatFloat('#,#0',dm1.ADOQuery1['gj_dsn']);
SetWindowLong(eGjDsn.Handle,GWL_STYLE,GetWindowLong(eGjDsn.Handle,
GWL_STYLE) or ES_RIGHT);
eGjpeg.Text:=FormatFloat('#,#0',dm1.ADOQuery1['gj_peg']);
SetWindowLong(eGjpeg.Handle,GWL_STYLE,GetWindowLong(eGjpeg.Handle,
GWL_STYLE) or ES_RIGHT);
ePbm.Text:=FormatFloat('#,#0',dm1.ADOQuery1['pbm']);
SetWindowLong(ePbm.Handle,GWL_STYLE,GetWindowLong(ePbm.Handle,
GWL_STYLE) or ES_RIGHT);
eTL.Text:=FormatFloat('#,#0',dm1.ADOQuery1['bea_tl']);
SetWindowLong(eTL.Handle,GWL_STYLE,GetWindowLong(eTL.Handle,
GWL_STYLE) or ES_RIGHT);
eKmhS.Text:=FormatFloat('#,#0',dm1.ADOQuery1['kmhs']);
SetWindowLong(eKmhS.Handle,GWL_STYLE,GetWindowLong(eKmhS.Handle,
GWL_STYLE) or ES_RIGHT);
bop:=gjdsn+gjpeg+pbm+beatl+kmhs;
dom:=bop/jmhs;
eDom.Text:=FormatFloat('#,#0',dom);
SetWindowLong(eDom.Handle,GWL_STYLE,GetWindowLong(eDom.Handle,
GWL_STYLE) or ES_RIGHT);
ePnlt.Text:=FormatFloat('#,#0',dm1.ADOQuery1['pnlt']);
SetWindowLong(ePnlt.Handle,GWL_STYLE,GetWindowLong(ePnlt.Handle,
GWL_STYLE) or ES_RIGHT);
ePkm.Text:=FormatFloat('#,#0',dm1.ADOQuery1['pkm']);
SetWindowLong(ePkm.Handle,GWL_STYLE,GetWindowLong(ePkm.Handle,
GWL_STYLE) or ES_RIGHT);
eInv.Text:=FormatFloat('#,#0',dm1.ADOQuery1['inv']);
SetWindowLong(eInv.Handle,GWL_STYLE,GetWindowLong(eInv.Handle,
GWL_STYLE) or ES_RIGHT);
totklr:=bop+pnlt+pkm+inv;
eTotKlr.Text:=FormatFloat('#,#0',totklr);
SetWindowLong(eTotKlr.Handle,GWL_STYLE,GetWindowLong(eTotKlr.Handle,
GWL_STYLE) or ES_RIGHT);
{8b rasio keluar:masuk}
pGjdsn1:=(gjdsn/spp*100);
ePGjDsn1.Text:=FormatFloat('#0.00'+'%',pgjdsn1);
SetWindowLong(ePGjDsn1.Handle,GWL_STYLE,GetWindowLong(ePGjDsn1.Handle,
GWL_STYLE) or ES_RIGHT);
pGjdsn2:=(gjdsn/totmsk*100);
ePGjDsn2.Text:=FormatFloat('#0.00'+'%',pgjdsn2);
SetWindowLong(ePGjDsn2.Handle,GWL_STYLE,GetWindowLong(ePGjDsn2.Handle,
GWL_STYLE) or ES_RIGHT);
pgjpeg1:=(gjpeg/spp*100);
ePGjPeg1.Text:=FormatFloat('#0.00'+'%',pgjpeg1);
SetWindowLong(ePGjPeg1.Handle,GWL_STYLE,GetWindowLong(ePGjPeg1.Handle,

```

```

GWL_STYLE) or ES_RIGHT);
pGjpeg2:=(gjpeg/totmsk*100);
ePGjpeg2.Text:=FormatFloat('#0.00'+'%',pGjpeg2);
SetWindowLong(ePGjpeg2.Handle,GWL_STYLE,GetWindowLong(ePGjpeg2.Handle,
GWL_STYLE) or ES_RIGHT);
ppbm1:=(pbm/spp*100);
ePPbm1.Text:=FormatFloat('#0.00'+'%',ppbm1);
SetWindowLong(ePPbm1.Handle,GWL_STYLE,GetWindowLong(ePPbm1.Handle,
GWL_STYLE) or ES_RIGHT);
ppbm2:=(pbm/totmsk*100);
ePPbm2.Text:=FormatFloat('#0.00'+'%',ppbm2);
SetWindowLong(ePPbm2.Handle,GWL_STYLE,GetWindowLong(ePPbm2.Handle,
GWL_STYLE) or ES_RIGHT);
ptL1:=(beatl/spp*100);
ePTL1.Text:=FormatFloat('#0.00'+'%',ptL1);
SetWindowLong(ePTI1.Handle,GWL_STYLE,GetWindowLong(ePTI1.Handle,
GWL_STYLE) or ES_RIGHT);
ptl2:=(beatl/totmsk*100);
ePTI2.Text:=FormatFloat('#0.00'+'%',ptl2);
SetWindowLong(ePTI2.Handle,GWL_STYLE,GetWindowLong(ePTI2.Handle,
GWL_STYLE) or ES_RIGHT);
pkmhs1:=(kmhs/spp*100);
ePKmhs1.Text:=FormatFloat('#0.00'+'%',pkmhs1);
SetWindowLong(ePKmhs1.Handle,GWL_STYLE,GetWindowLong(ePKmhs1.Handle,
GWL_STYLE) or ES_RIGHT);
pkmhs2:=(kmhs/totmsk*100);
ePKmhs2.Text:=FormatFloat('#0.00'+'%',pkmhs2);
SetWindowLong(ePKmhs2.Handle,GWL_STYLE,GetWindowLong(ePKmhs2.Handle,
GWL_STYLE) or ES_RIGHT);
{9 sapras}
{9a. ruang kelas & lab}
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select count(*) as jrkl from tRuang';
  Active:=true;
end;
jrkl:=dm1.ADOQuery1['jrkl'];
eJRkl.Text:=IntToStr(jrkl);
{9b. ketersediaan & kebutuhan sesi}
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select count(*) as jsesi from tSesi';
  Active:=true;
end;
jsesi:=dm1.ADOQuery1['jsesi'];

```

```

tsesi:=jsesi*jrkls;
eJSesi.Text:=IntToStr(jsesi);
eStkSesi.Text:=IntToStr(tsesi);
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select sum(sks) as tsks from tMK where kd_fak='
+kupps+'and kd_prd='+kprd;
  Active:=true;
end;
tsks:=dm1.ADOQuery1['tsks'];
sssesi:=tsesi-tsks;
eTskSesi.Text:=IntToStr(tsks);
eSsSesi.Text:=IntToStr(sssesi);
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select * from tMhs where ta='+QuotedStr(cbTAkd.Text)+
'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+tm;
  Active:=true;
end;
jkls:=dm1.ADOQuery1['jml_kls'];
eJkls.Text:=IntToStr(jkls);
{10 simulasi}
eURKls.Text:=eJRkls.Text;
SetWindowLong(eURKls.Handle,GWL_STYLE,GetWindowLong(eURKls.Handle,
GWL_STYLE) or ES_RIGHT);
eUJkls.Text:=eJkls.Text;
SetWindowLong(eUJkls.Handle,GWL_STYLE,GetWindowLong(eUJkls.Handle,
GWL_STYLE) or ES_RIGHT);
eUSesi.Text:=eJSesi.text;
SetWindowLong(eUSesi.Handle,GWL_STYLE,GetWindowLong(eUSesi.Handle,
GWL_STYLE) or ES_RIGHT);
eUDsnT.Text:=eTDsnT.Text;
SetWindowLong(eUDsnT.Handle,GWL_STYLE,GetWindowLong(eUDsnT.Handle,
GWL_STYLE) or ES_RIGHT);
eUSppBr.Clear;
SetWindowLong(eUSppBr.Handle,GWL_STYLE,GetWindowLong(eUSppBr.Handle,
GWL_STYLE) or ES_RIGHT);
{spp mhs baru}
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select * from tMhs where ta='+QuotedStr(cbTAkd.Text)+
'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+IntToStr(ts);

```

```

    Active:=true;
end;
sppbr:=StrToFloat(dm1.ADOQuery1['spp_ttp'])+StrToFloat(dm1.ADOQuery1['spp_var'])+
StrToFloat(dm1.ADOQuery1['pkt_thn'])+StrToFloat(dm1.ADOQuery1['pkt_sem'])+
StrToFloat(dm1.ADOQuery1['pkt_bln']);
if dm1.ADOQuery1['jbyr']='5' then
begin
    with dm1.ADOQuery1 do
    begin
        Active:=false;
        Close;
        SQL.Clear;
        SQL.Text:='select avg(ukt) as avgukt from tMhs where ta='+QuotedStr(cbTAkd.Text)+
        'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+IntToStr(ts);
        Active:=true;
        avguktbr:=StrToFloat(dm1.ADOQuery1['avgukt']);
        sppbr:=avguktbr;
    end;
end;
eSppBr.Text:=FormatFloat('#,#0',sppbr);
SetWindowLong(eSppBr.Handle,GWL_STYLE,GetWindowLong(eSppBr.Handle,
GWL_STYLE) or ES_RIGHT);
cbTAkd.Color:=clMenu;
cbTAkd.Enabled:=False;
btnFak.Enabled:=True;
Exit;
end;
end;

```

```

procedure TfrmKeputusan.btnURklsClick(Sender: TObject);
begin
    eURkls.Enabled:=True;
    eURkls.Color:=clWhite;
    eURkls.SetFocus;
end;

```

```

procedure TfrmKeputusan.eURKlsKeyPress(Sender: TObject; var Key: Char);
begin
    if (Key=chr(13)) then
    begin
        btnProses.Enabled:=True;
        SetWindowLong(eURKls.Handle,GWL_STYLE,GetWindowLong(eURKls.Handle,
        GWL_STYLE) or ES_RIGHT);
        Exit;
    end;
end;

```

```

procedure TfrmKeputusan.btnUJklsClick(Sender: TObject);
begin
    eUJkls.Enabled:=True;
    eUJkls.Color:=clWhite;

```

```
eUJKls.SetFocus;  
end;
```

```
procedure TfrmKeputusan.eUJKlsKeyPress(Sender: TObject; var Key: Char);  
begin  
  if (Key=chr(13)) then  
  begin  
    btnProses.Enabled:=True;  
    SetWindowLong(eUJKls.Handle,GWL_STYLE,GetWindowLong(eUJKls.Handle,  
    GWL_STYLE) or ES_RIGHT);  
    Exit;  
  end;  
end;
```

```
procedure TfrmKeputusan.btnUsesiClick(Sender: TObject);  
begin  
  eUSesi.Enabled:=True;  
  eUSesi.Color:=clWhite;  
  eUSesi.SetFocus;  
end;
```

```
procedure TfrmKeputusan.eUSesiKeyPress(Sender: TObject; var Key: Char);  
begin  
  if (Key=chr(13)) then  
  begin  
    btnProses.Enabled:=True;  
    btnProses.SetFocus;  
    SetWindowLong(eUSesi.Handle,GWL_STYLE,GetWindowLong(eUSesi.Handle,  
    GWL_STYLE) or ES_RIGHT);  
    Exit;  
  end;  
end;
```

```
procedure TfrmKeputusan.btnUDsnTClick(Sender: TObject);  
begin  
  eUDsnT.Enabled:=True;  
  eUDsnT.Color:=clWhite;  
  eUDsnT.SetFocus;  
end;
```

```
procedure TfrmKeputusan.eUDsnTKeyPress(Sender: TObject; var Key: Char);  
begin  
  if (Key=chr(13)) then  
  begin  
    btnProses.Enabled:=True;  
    btnProses.SetFocus;  
    SetWindowLong(eUDsnT.Handle,GWL_STYLE,GetWindowLong(eUDsnT.Handle,  
    GWL_STYLE) or ES_RIGHT);  
    Exit;  
  end;  
end;
```

```

procedure TfrmKeputusan.btnUSppClick(Sender: TObject);
begin
  eUSppBr.Enabled:=True;
  eUSppBr.Color:=clWhite;
  eUSppBr.SetFocus;

```

```

end;

```

```

procedure TfrmKeputusan.eUSppBrKeyPress(Sender: TObject; var Key: Char);

```

```

begin
  if (Key=chr(13)) then
  begin
    btnProses.Enabled:=True;
    btnProses.SetFocus;
    SetWindowLong(eUSppBr.Handle,GWL_STYLE,GetWindowLong(eUSppBr.Handle,
    GWL_STYLE) or ES_RIGHT);
    pctsp:= (StrToFloat(eUSppbr.Text))/100;
    naikspbr:=sppbr*pctsp;
    sppbr:=sppbr+naikspbr;
    Exit;
  end;
end;

```

```

procedure TfrmKeputusan.btnProsesClick(Sender: TObject);

```

```

begin
  ujcls:=StrToInt(eUJcls.Text);
  urkls:=StrToInt(eURKls.Text);
  usesi:=StrToInt(eUSesi.Text);
  ujdsn:=StrToInt(eUDsnT.Text);
  hsdnsesi:=urkls*usesi;
  hbthsesi:=tsks*ujcls;
  eHBthSesi.Text:=IntToStr(hbthsesi);
  SetWindowLong(eHBthSesi.Handle,GWL_STYLE,GetWindowLong(eHBthSesi.Handle,
  GWL_STYLE) or ES_RIGHT);
  eHSdnSesi.Text:=IntToStr(hsdnsesi);
  SetWindowLong(eHSdnSesi.Handle,GWL_STYLE,GetWindowLong(eHSdnSesi.Handle,
  GWL_STYLE) or ES_RIGHT);
  eHSppBr.Text:=FormatFloat('#,##0',sppbr);
  SetWindowLong(eHSppBr.Handle,GWL_STYLE,GetWindowLong(eHSppBr.Handle,
  GWL_STYLE) or ES_RIGHT);
  {hitung spp}
  tspp:=0;tsppt:=0;tsppv:=0;tpktt:=0;tpkts:=0;tpktb:=0;tukt:=0;
  with dm1.ADOQuery1 do
  begin
    Active:=false;
    Close;
    SQL.Clear;
    SQL.Text:='select sum(sks)as jsks from tMk where kd_prd='+kprd;
    Active:=true;

```



```

end;
jSks:=dm1.ADOQuery1['jksks'];
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select count(*) as jmhs from tMhs where ta='+QuotedStr(cbTAkd.Text)+
  'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+IntToStr(ts)+' or ta='+QuotedStr(cbTAkd.Text)+
  'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+IntToStr(ts-1)+' or
ta='+QuotedStr(cbTAkd.Text)+
  'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+IntToStr(ts-2)+' or
ta='+QuotedStr(cbTAkd.Text)+
  'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+IntToStr(ts-3);
  Active:=true;
end;
jMhs:=dm1.ADOQuery1['jmhs'];
// label1.Caption:=IntToStr(jmhs);
with dm1.ADOQuery1 do
begin
  Active:=false;
  Close;
  SQL.Clear;
  SQL.Text:='select * from tMhs where ta='+QuotedStr(cbTAkd.Text)+
  'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+IntToStr(ts)+' or ta='+QuotedStr(cbTAkd.Text)+
  'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+IntToStr(ts-1)+' or
ta='+QuotedStr(cbTAkd.Text)+
  'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+IntToStr(ts-2)+' or
ta='+QuotedStr(cbTAkd.Text)+
  'and kd_fak='+kupps+'and kd_prd='+kprd+'and tm='+IntToStr(ts-3);
  Active:=true;
end;
while not dm1.ADOQuery1.Eof do
begin
  tsppt:=tsppt+StrToFloat(dm1.ADOQuery1['spp_ttp'])*2;
  tsppv:=tsppv+jSks*StrToFloat(dm1.ADOQuery1['spp_var']);
  tpktt:=tpktt+StrToFloat(dm1.ADOQuery1['pkt_thn']);
  tpkts:=tpkts+StrToFloat(dm1.ADOQuery1['pkt_sem'])*2;
  tpktb:=tpktb+StrToFloat(dm1.ADOQuery1['pkt_bln'])*12;
  tukt:=tukt+StrToFloat(dm1.ADOQuery1['ukt']);
  dm1.ADOQuery1.Next;
end;
tspp:=tspp+tsppt+tsppv+tpktt+tpkts+tpktb+tukt;

eHDnMsk.Text:=FormatFloat('#, #0', tspp);
SetWindowLong(eHDnMsk.Handle, GWL_STYLE, GetWindowLong(eHDnMsk.Handle,
GWL_STYLE) or ES_RIGHT);

mRekom.Text:='sini'+IntToStr(ujkls);
mInfo.Text:='';
mRekom.Text:='';

```

```

hsssesi:=hsdnsesi-hbthsesi;
if (hsdnsesi<hbthsesi) then
begin
  mInfo.Text:='Ketersediaan sesi tidak mencukupi kebutuhan sesi kuliah'+
  chr(13)+' kekurangan sesi = '+FloatToStr(abs(hsssesi));
  mRekom.Text:='tambah jumlah ruang atau jumlah sesi dalam satu minggu'
end
else
  mInfo.Text:='Ketersediaan sesi tersisa = '+FloatToStr(hsssesi);
bbngjr:=tsks/jdsnttp;
hbbngjr:=hbthsesi/ujdsn;
eHDT.Text:=eUDsnT.Text;
SetWindowLong(eHDT.Handle,GWL_STYLE,GetWindowLong(eHDT.Handle,
GWL_STYLE) or ES_RIGHT);
eHBngjr.Text:=FloatToStr(hbbngjr);
SetWindowLong(eHBngjr.Handle,GWL_STYLE,GetWindowLong(eHBngjr.Handle,
GWL_STYLE) or ES_RIGHT);

If (ujkls>=jkl) then
begin
  hjmhsbr:=jmhsbr*ujkls-jkl;
  eHmhs.Text:=IntToStr(hjmhsbr);
  SetWindowLong(eHmhs.Handle,GWL_STYLE,GetWindowLong(eHmhs.Handle,
  GWL_STYLE) or ES_RIGHT);
  mPantau.Text:='Jumlah mahasiswa baru bertambah '+IntToStr(ujkls)+
  ' kelas dengan jumlah mahasiswa = '+IntToStr(hjmhsbr)+' beban mengajar melebihi'+
  ' batas aturan 16 sks';
end;
if (hbbngjr>16) and (ujkls<jkl) then
  mPantau.Text:=' beban mengajar melebihi batas aturan 16 sks';
end;

procedure TfrmKeputusan.btnFakClick(Sender: TObject);
begin
  FormCreate(Sender);
  cbUpps.Enabled:=True;
  cbUpps.Color:=clWhite;
  cbUpps.SetFocus;
  btnBatal.Enabled:=True;
end;

procedure TfrmKeputusan.cbNmDsnKeyPress(Sender: TObject; var Key: Char);
begin
  key:=#0;
end;

procedure TfrmKeputusan.mRekomKeyPress(Sender: TObject; var Key: Char);
begin
  key:=#0;
end;

```

```
procedure TfrmKeputusan.btnKmb1Click(Sender: TObject);  
begin  
    frmKeputusan.Close;  
end;  
end.
```

## MANUAL PENGGUNAAN PROGRAM

Program ini dibangun dengan menggunakan Bahasa pemrograman Delphi dan SQL-Server sebagai *database*-nya.

Program ini digunakan untuk membantu manajer/pimpinan perguruan tinggi maupun Yayasan perguruan tinggi untuk :

- ✓ Melihat capaian penilaian sumber daya dari aturan/rencana yang telah ditetapkan
- ✓ Memprediksi rencana kebutuhan sumber daya yang akan datang.

Program juga dapat digunakan untuk mencari kebutuhan sumber daya perguruan tinggi yang paling optimum dengan cara mensimulasikan perubahan variabel seperti kenaikan spp, kebutuhan ruang kelas, kebutuhan jam sesi dalam satu minggu, beban mengajar dosen tetap.

Langkah-langkah penggunaan program SPK Sumberdaya Perguruan Tinggi sebagai berikut :

### **Langkah 1.** Pendataan Data Identitas Perguruan Tinggi

Form Data Identitas Perguruan Tinggi digunakan untuk merekam data identitas perguruan tinggi dan dapat diisi lebih dari satu perguruan tinggi apabila satu yayasan menaungi lebih dari satu perguruan tinggi. Bentuk perguruan tinggi : Universitas, Institut, Politeknik, Sekolah Tinggi dan Akademi. Seperti tampilan pada gambar 16.

Kd. PT	Nama Perguruan Tinggi	Bentuk PT

Gambar 16. Form Data Identitas Perguruan Tinggi

### **Langkah 2.** Pendataan Data Identitas Fakultas/UPPS/Jurusan

Form Data identitas fakultas digunakan untuk merekam data identitas fakultas/jurusan yang dikelola perguruan tinggi. Apabila Sekolah tinggi, Politeknik atau Akademi dikosongkan dengan memberi kode 00. Seperti tampilan pada gambar 17.

The screenshot shows a web application window titled "IDENTITAS FAKULTAS/JURUSAN". The interface is divided into several sections:

- Isian Identitas Fakultas/Jurusan:** A form with three input fields: "Kode Fakultas" (value: 10), "Nama Fakultas" (value: PROGRAM DIPLOMA), and "Alamat" (value: JL PROF SOEPOMO NO. 21 YOGYAKARTA).
- Informasi:** A yellow rectangular area, likely a placeholder for an image or logo.
- Daftar Fakultas:** A table with a "Refresh" button. The table contains the following data:

Kd Fak.	Nama Fakultas	Alamat
22	EKONOMI	JL. SILIWANGI RINGROAD JOME
23	HUMANIORA	JL. GLAGAH SARI 63 YOGYAKAI
24	PASCA SARJANA	JL. SILIWANGI RINGROAD JOME
—		
- Menu:** A vertical stack of buttons: "Tambah", "Batal", "Simpan", "Ubah", "Ke Menu Utama", and "Hapus".
- Timestamp:** "08/01/2023 15:37:24" is displayed in the top right corner.

Gambar 17. Form Data Identitas Fakultas

### Langkah 3. Pendataan Data Identitas Program Studi

Form Data identitas Program Studi digunakan untuk merekam data identitas program studi sesuai yang dikelola fakultas. Isian rumpun ilmu dan bidang ilmu program studi sesuai daftar aturan Pendidikan tinggi. Seperti tampilan pada gambar 18.

PROGRAM STUDI

08/01/2023 15:53:50

**Isian Data Identitas Program Studi**

Kode Prodi: 311  
 Nama Prodi: SISTEM INFORMASI  
 Program: DIPLOMA 3  
 Peringkat Akred.: A  
 Rumpun Ilmu:  Ilmu Alam  Ilmu Sosial  
 Bidang Ilmu: Ilmu Komputer  
 UPPS/Fak/Jur: PROGRAM DIPLOMA

**Daftar Program Studi**

Kd. Prodi	Nama Program Studi	Akreditasi	Fakultas/UPPS
111	AKUNTANSI	A	22
112	MANAJEMEN	BAIK SEKAL	22
123	INFORMATIKA	UNGGUL	11
210	SASTRA INGGRIS	A	23
211	BAHASA INGGRIS	A	23

Informasi

Menu

Tambah  
 Batal  
 Simpan  
 Ubah  
 Ke Menu Utama  
 Hapus

Gambar 18. Form Data Identitas Program Studi

#### Langkah 4. Pendataan Data Identitas Dosen Tetap

Form Data identitas Dosen Tetap digunakan untuk merekam data identitas dosen tetap sesuai homebase program studi. Isian bidang ilmu dosen sesuai keilmuan dosen. Seperti tampilan pada gambar 19.

IDENTITAS DOSEN TETAP

**Identitas Dosen Tetap**

NIDN/NUP: 0517016502 NIK/NIP: 110889001  
 Nama Dosen: DAMAR PRASETYO  
 Homebase (Prodi): SISTEM INFORMASI  
 Pendidikan Akhir: MAGISTER(S2) Tgl. SK. awal dosen: 01/07/2008  
 Bidang Ilmu: Ilmu Komputer  
 Jabatan Akademik: ASISTEN AHLI Status: DOSEN TETAP

**Memiliki Sertifikat**

Sertifikat Pendidik [Serdos]  
 Sertifikat Profesi setara  6 KKNi  8 KKNi  9 KKNi

**Daftar Dosen Tetap**

NIK	Nama	Home Base	Pend. Akhir	Bid. Ilmu	JAJA	Status
11100201020	ANIS FITRIANA	111	MAGISTER(S2)	726	LEKTOR	DOSEN I
11240203026	PUTRI NUR ALIFAH	111	MAGISTER(S2)	630	ASISTEN AHLI	DOSEN I
11181101017	GIGIH ANANG PRACOYO	111	DOKTOR (S3)	726	LEKTOR	DOSEN I
11200801018	HADIYATUL JANNAH	111	MAGISTER(S2)	726	ASISTEN AHLI	DOSEN I
11130901019	LUQMAN DAMAR SANTOSA	111	MAGISTER(S2)	726	ASISTEN AHLI	DOSEN I
11020300015	RYAN MAULANA	123	MAGISTER(S2)	123	LEKTOR	DOSEN I

Navigasi

Tekan Tombol Panah Atas Bawah atau Klik

Menu

Tambah  
 Batal  
 Simpan  
 Ubah  
 Ke Menu Utama  
 Hapus

Gambar 19. Form Data Identitas Dosen Tetap

**Langkah 5.** Pendataan Data Identitas Dosen Tetap

Form Data identitas Dosen Tidak Tetap digunakan untuk merekam data identitas dosen tidak tetap yang mengajar di program studi. Isian bidang ilmu dosen sesuai keilmuan dosen. Seperti tampilan pada gambar 20.

No. Ident.	Nama Dosen	Pendidikan	JAJA	Status
100201	FITRI DWI ASTUTI	MAGISTER(S2)	LEKTOR	DOSEN TIDAK TETA
100101	EIRINA SULUH KUMALASARI	MAGISTER(S2)	LEKTOR	DOSEN TIDAK TETA

Gambar 20. Form Data Identitas Dosen Tidak Tetap

**Langkah 6.** Pendataan Data Identitas Tenaga Kependidikan

Form Data identitas Tenaga Kependidikan digunakan untuk merekam data identitas tenaga kependidikan. Isian bidang keahlian dan bidang tugas. Seperti tampilan pada gambar 21.

NIK	Nama Pegawai	Pendidikan	Keahlian
210700010	ARGA SATRIA BRIMADYA	DIPLOMA(D3)	PUSTAKAWAN
210398005	REFFA JAVAMI KURNIA	SARJANA(S1)	LABORAN
210700010	DAFFA RISKY DWI PRASETYO	SARJANA(S1)	LABORAN
210299004	ATYA RAHMADINA	SARJANA(S1)	LABORAN

Gambar 21. Form Data Identitas Tenaga Kependidikan

## Langkah 7. Pendataan Data Identitas Mahasiswa, Jenis Pembayaran SPP dan Kelulusan

Form Data identitas Mahasiswa digunakan untuk merekam data identitas mahasiswa jenis pembayaran SPP, nominal dan tanggal kelulusan. Jenis pembayaran SPP terdiri dari (1) spp tetap dan variabel, (2) SPP paket per tahun, (3) SPP paket per semester, (4) SPP paket per bulan, (5) SPP uang kuliah tunggal (UKT). Seperti tampilan form pada gambar 22. Isian tanggal kelulusan sesuai tanggal kelulusan pada tahun akademik. Seperti tampilan form gambar 23.

Gambar 22. Form Data Mahasiswa dan Besar Pembayaran SPP



Gambar 23. Form Data Kelulusan

## Langkah 8. Pendataan Data Matakuliah

Form Data Matakuliah digunakan untuk merekam data matakuliah sesuai kurikulum yang berlaku. Sesuai fakulta dan program studi. Isian bidang ilmu sesuai aturan Pendidikan tinggi. Seperti tampilan form pada gambar 24.

Kd. Mk	Nama Matakuliah	sks	Sem.	Kurikulum
TIK1071	PROBABILITAS DAN STATISTIKA	2	1	2015
TIK1081	ALGORITMA DAN PEMROGRAMAN KOMPUTER	4	1	2015
TIK1091	PRAKT.ALGORITMA & PEMROGRAMAN KOMPUTER	1	1	2015
TIK1012	BAHASA INGGRIS	2	2	2015

Gambar 24. Form Data Matakuliah

## Langkah 9. Pendataan Data Ruang

Form Data Ruang digunakan untuk merekam data ruang kuliah atau laboratorium, dan kapasitas per ruang. Seperti tampilan form pada gambar 25.

**Isian Data Ruang Kuliah**

Kode Ruangan: D23  
 Nama Ruangan: R. KULIAH D23  
 Jenis Ruangan: RUANG KULIAH  
 Kapasitas: 50

**Daftar Ruangan**

Kd. Ruangan	Nama/Kode Ruang		Kapasitas
D22	R. KULIAH D22	RUANG KULIAH	60
D21	R. KULIAH D21	RUANG KULIAH	70
D11	R. KULIAH D11	RUANG KULIAH	60
LAB.K1	LAB KOMPUTER 1	LABORATORIUM	50

**Menu**

Tambah  
 Batal  
 Simpan  
 Ubah  
 Ke Menu Utama  
 Hapus

Gambar 25. Form Data Ruangan

**Langkah 10.** Pendataan Data Proses Belajar Mengajar

Form Data Proses Belajar Mengajar digunakan untuk merekam data matakuliah yang diampu dosen pada tahun akademik sesuai tahun kurikulum yang digunakan. Seperti tampilan form pada gambar 26.

**Isian Data Proses Belajar Mengajar**

Program Studi: INFORMATIKA  
 Tahun Akademik: 2020/2021

**Matakuliah**

Thn Kurikulum: 2015  
 Matakuliah: ALGORITMA GENETIK  
 Bidang Ilmu: ILMU KOMPUTER  
 Kelas: A

**Pengajar:**  Dosen Tetap  Dosen Tidak Tetap  
 Nama Dosen: PUTRI NUR ALIFAH  
 Status: DOSEN TETAP

**Menu**

Pilih Thn.Akd.  
 Pilih Prog.Studi  
 Pilih Thn.Kurikulum  
 Pilih Matakuliah  
 Tambah  
 Batal  
 Simpan  
 Ubah  
 Ke Menu Utama  
 Hapus

Gambar 26. Form Data Proses Belajar Mengajar

**Langkah 11.** Pendataan Data Pengelolaan Dana

Form Data Pengelolaan Dana digunakan untuk merekam data dana masuk dan keluar. Dana masuk SPP secara otomatis telah dihitung. Isian dana masuk sumber lain selain dari penarikan uang SPP. Isian besar dana keluar setiap item dapat perolah dari sistem lain. Seperti tampilan form pada gambar 27.

Gambar 27. Form Data Pengelolaan Dana

## Langkah 12. Dashboard Informasi Sumber daya

Form Dashboard informasi sumber daya menginformasikan : jumlah dosen tetap, jumlah dosen sesuai Pendidikan, jumlah dosen sesuai jafa. Menginformasikan juga jumlah dosen tetap program studi (DTPS/dosen yang mengajar matakuliah inti) yang sesuai bidang ilmu, pendidikan dan jafa. Informasi rasio jumlah dosen tetap dengan jumlah mahasiswa dan rasio jumlah DTSP dengan jumlah mahasiswa, Informasi jumlah tenaga kependidikan sesuai Pendidikan bidang pekerjaan. Informasi jumlah mahasiswa lama dan baru sesuai tahun akademik sekarang (TS). Informasi jumlah lulusan tepat waktu dan drop out sesuai (TS). Informasi dana masuk dan dana keluar. Informasi dana keluar antara lain dana operasional mahasiswa (DOM) dan juga menginformasikan prosentase dana keluar dibandingkan dengan dana SPP dan total dana masuk. Seperti tampilan form pada gambar 28.

PENGAMBILAN KEPUTUSAN

Pilih Fakultas/Jurusan dan Program Studi

Fakultas: SAINS & TEKNOLOGI Program Studi: INFORMATIKA Thn. Aka: 2020/2021

**Sumber Daya Manusia**

**Dosen Tetap**

Homebase

Total Dosen Tetap	8	Aturan	-
Sesuai Bid. Ilmu PS	7		
Tdk Sesuai Bid. Ilmu PS	1		
Magister/Terapan	6	Memenuhi	
Doktor/Terapan	1		
Asisten Ahli	3		
Lektor	4		
Lektor kepala	0		
Professor	0		

**DTPS**

Dosen Tetap Pengampu di PS	13	Ket
Sesuai Bid. Ilmu PS (DTPS)	7	
Tdk Sesuai Bid. Ilmu PS	6	Ket
Magister/Terapan	12	
Doktor/Terapan	1	
Asisten Ahli	6	
Lektor	7	Ket
Lektor kepala	0	
Professor	0	

**Rasio Dosen Tetap vs Mahasiswa**

Homebase : Mhs = 1 : 20,75 DTPS : Mhs = 1 : 23,714

**Tenaga Kependidikan**

**Administrasi**

D3	1	Aturan
D4/S1	1	
S2	0	

**Penunjang Akd/Laboran**

D3	0	
D4/S1	6	
S2	0	

**Pustakawan**

D3	1	
D4/S1	1	
S2	0	

Total Tng. Kepend. 10

**Jumlah Mahasiswa**

Jumlah mhs lama	130
Jumlah mhs baru	36
Total Mhs	166

**Jumlah Lulusan**

Lulusan tepat waktu	6
Drop Out	0

**Sumber Daya Keuangan**

**Pemasukan**

SPP	2.000.000.000
Dana sumber lain	600.000.000
Total Pemasukan	2.600.000.000

**Pengeeluaran**

Biaya Operasional Pendidikan	SPP	Pemasukan
Gaji/Honor Dosen	400.000.000	20,00%
Gaji/Honor Pegawai	270.000.000	10,38%
Biaya PEM	600.000.000	23,08%
Biaya tidak langsung	50.000.000	1,92%
Biaya kemahasiswaan	100.000.000	3,85%
DOM	8.554.217	0,33%
Biaya Penelitian	200.000.000	7,69%
Biaya PKM	150.000.000	5,77%
Biaya Investasi	150.000.000	5,77%
Total Pengeeluaran	1.920.000.000	73,85%

**Sumber Daya SaFras. & Pendukung**

Jumlah ruang kelas	5
Jumlah sesi per minggu	49
Ketersediaan sesi kuliah per minggu	245
Jumlah kelas Mhs baru	1

**Simulasi**

**Ubah Data**

Jumlah ruang kelas	5	Ubah
Jumlah kelas Mhs Baru YAD	1	Ubah
Jumlah sesi per minggu	49	Ubah
Jumlah Dosen Tetap (HE)	8	Ubah
SPP Mahasiswa Baru	11.875.000	
Kenaikan SPP Baru	%	Ubah

Proses Hasil

**Hasil Simulasi**

**Kebutuhan**

Ruang kelas	
Jumlah sesi per minggu	
Sesi per minggu	
Ketersediaan sesi per minggu	
Mahasiswa baru yang diterima	
Dosen Tetap (DT)	
Beban Dosen HE mengajar	
SPP Mahasiswa Baru	
Dana pemasukan SPP	

**PROGRAM SAR**

**Menu**

- Pilih Fakultas
- Pilih Prodi
- Batal
- Proses Lagi
- Simulasi
- Simpan
- Ke Menu Utama

**Informasi Monitoring**

**Penilaian Pemantauan**

**Rekomendasi**

Gambar 28. Form Dashboard Informasi Sumber Daya yang dimiliki Perguruan Tinggi

### Langkah 13. Dashboard Simulasi

Form Dashboard Simulasi sumber daya dalam satu form dengan dashboard informasi sumber daya. Simulasi digunakan untuk memprediksi maupun membuat alternatif keputusan yang akan diambil manajer. Simulasi dalam dilakukan dengan mengubah data jumlah ruang kelas, jumlah kelas mahasiswa baru, jumlah dosen tetap home base dan prosentasi kenaikan SPP.

Hasil simulasi berupa prediksi atau alternatif keputusan yang meliputi kebutuhan ruang kelas, jumlah sesi per minggu, kebutuhan sesi per minggu, ketersediaan sesi per minggu, kuota mahasiswa yang diterima, kebutuhan dosen tetap, beban mengajar dosen tetap, besar spp mahasiswa baru, jumlah dana masuk. Seperti tampilan form pada gambar 29.

**PENGAMBILAN KEPUTUSAN**

Pilih Fakultas/Jurusan dan Program Studi  
 Fakultas: SAINS & TEKNOLOGI Program Studi: INFORMATIKA Thn. Aka: 2020/2021

**Sumber Daya Manusia**

**Dosen Tetap**

Homebase

Totol Dosen Tetap	8	Aturan	=
Sesuai Bid. Ilmu PS	7		
Tdk Sesuai Bid. Ilmu PS	1		
Magister/Terapan	6	Memenuhi	
Doktor/Terapan	1		
Asisten Ahli	3		
Lektor	4		
Lektor kepala	0		
Profesor	0		

**DTPS**

Dosen Tetap Pengamru di PS	18	Ket
Sesuai Bid. Ilmu PS (DTPS)	7	
Tdk Sesuai Bid. Ilmu PS	6	Ket
Magister/Terapan	12	
Doktor/Terapan	1	
Asisten Ahli	6	
Lektor	7	Ket
Lektor kepala	0	
Profesor	0	

**Rasio Dosen Tetap vs Mahasiswa**

Homebase : Mhs = 1 : 20,75 DTPS : Mhs = 1 : 29,714

**Tenaga Kependidikan**

**Administrasi**

D3	1	Aturan
D4/S1	1	
S2	0	

**Penunjang Akd/Laboran**

D3	0	
D4/S1	0	
S2	0	

**Pustakawan**

D3	1	
D4/S1	1	
S2	0	

Total Tng. Kepend. 10

**Jumlah Mahasiswa**

Jumlah mhs lama	130
Jumlah mhs baru	36
Total Mhs	166

**Jumlah Lulusan**

Lulusan tepat waktu	0
Drop Out	0

**Sumber Daya Keuangan**

**Pemasukan**

SPP	2.000.000.000
Dana sumber lain	500.000.000
Total Pemasukan	2.500.000.000

**Pengeluaran**

Biaya Operasional Pendidikan	400.000.000	SPP	14.000
Gaji/Honor Dosen	270.000.000	Pemasukan	16.000
Gaji/Honor Pegawai	600.000.000		24.000
Biaya PEM	50.000.000		2.000
Biaya tidak langsung	100.000.000		4.000
Biaya kemahasiswaan	4.554.217		
DOM			
Biaya Penelitian	200.000.000		
Biaya PEM	150.000.000		
Biaya Investasi	150.000.000		
Total Pengeluaran	1.920.000.000		

**Sumber Daya SaPras. & Pendukung**

Jumlah ruang kelas	5	Kebutuhan sesi teori (total sks)	146
Jumlah sesi per minggu	49	Sisa sesi per minggu	99
Ketersediaan sesi kuliah per minggu	246		
Jumlah kelas Mhs baru	1		

**Simulasi**

**Ubah Data**

Jumlah ruang kelas	6	Ubah
Jumlah kelas Mhs Baru YAD	2	Ubah
Jumlah sesi per minggu	49	Ubah
Jumlah Dosen Tetap (HB)	6	Ubah
SPP Mahasiswa Baru	11.375.000	Ubah
Kemudian SPP Baru	10	Ubah

**Hasil Simulasi**

Kebutuhan	
Ruang kelas	
Jumlah sesi per minggu	292
Sesi per minggu	294
Ketersediaan sesi per minggu	71
Mahasiswa baru yang diterima	8
Dosen Tetap [DT]	36,6
Beban Dosen HB mengajar	12.512.658
SPP Mahasiswa Baru	2.346.888.988
Dana pemasukan SPP	

**PROGRAM SAR**

**Menu**

Pilih Fakultas  
 Pilih Prodi  
 Batal  
 Proses Lagi  
 Simulasi  
 Simpan  
 Ke Menu Utama

**Informasi Monitoring**

Ketersediaan sesi teorisa = 2

**Penilaian Pemantauan**

Jumlah mahasiswa baru bertambah 2 kelas dengan jumlah mahasiswa = 71 beban mengajar melebihi batas aturan 16 sks

**Rekomendasi**

Gambar 29. Form Dashboard Simulai dan Hasil Simulasi Informasi Sumber Daya Menggunakan Simulasi dengan menambah jumlah ruang kelas dari 5 menjadi 6 ruang kelas sudah terpenuhi ketersediaan sesi melebihi kebutuhan sesi per minggu. Kenaikan SPP 10%