IMPLEMENTATION OF RSA (RIVEST SHAMIR ADLEMAN) ALGORITHM CRYPTOGRAPHY FOR FILE SECURITY (Case Study: CV. Hardi Junior)

BERTILLA SERMA BR LIMBONG

Informatics Study Program, Faculty of Science & Technology University of Technology Yogyakarta Jl. Ringroad Utara Jombor Sleman Yogyakarta E-mail : bertila.serma123@gmail.com

ABSTRACT

Digital technology is an information technology that facilitates various human activities ranging from communication, information, transactions, education, entertainment to even the most personal needs. However, with the convenience obtained from current technology, it is easier for criminals to commit crimes so that the confidentiality and security of data can be known by unauthorized persons. In maintaining the confidentiality and security of data, a method is needed to secure data, one of which is by using cryptographic techniques. Cryptography is an encryption method that converts / scrambles data of different lengths / sizes into fixed length data. In cryptography there are several algorithms used to perform encryption, one of which is the RSA (Rivest Shamir Adleman) algorithm. RSA algorithm is asymmetric cryptography with a popular public key technique. This file security research will create a file security system using cryptography with the RSA algorithm, to change the contents of files that are easy to understand into files that are difficult for others to understand. It is hoped that by doing this research the system can minimize the occurrence of data leakage.

Keywords : Cryptography, Encryption, Decryption, RSA