

**IMPLEMENTATION OF TWOFISH ALGORITHM
CRYPTOGRAPHY FOR SECURITY OF EXAMINATION
QUESTION FILES**

(Case Study: SD Negeri Kebondalem 1 Pacitan)

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ABSTRACT

SD Negeri Kebondalem 1 Pacitan is an institution engaged in education which is located in the city of Pacitan. SD Negeri Kebondalem 1 Pacitan currently has a data security problem for exam questions that have no security system. The exam question file is an important file that must be kept confidential. SD Negeri Kebondalem 1 Pacitan in storing exam question files still uses manual methods. It is feared that the exam question which is one of the data that is highly confidential will leak if it does not have a data security system. In this problem, SD Negeri Kebondalem 1 Pacitan needs a data security system. In building this system using the Twofish algorithm method as a security method with encryption and description processes. Twofish is a cryptographic algorithm that operates in block chipper mode. The data used is the exam question data of SD Negeri Kebondalem 1 Pacitan. The results of this study show that the implementation of the Twofish algorithm with the encryption and description process can secure the exam question files of SD Negeri Kebondalem 1 Pacitan so that the exam question files of SD Negeri Kebondalem 1 Pacitan do not leak and cannot be accessed by unauthorized people.

Keywords: cryptography, twofish algorithm, UAT, data file.

