

**IMPLEMENTATION OF THE CAESAR CIPHER ALGORITHM
FOR DATA SECURITY OF WEBSITE-BASED SALES AND
PURCHASE TRANSACTIONS OF STATIONERY
(CASE STUDY: PELANGI STATIONERY STORE IN CILACAP REGENCY)**

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ABSTRACT

Pelangi Store is a shop that serves supplies of goods in the form of stationery. Pelangi shop is located on Jalan Gatot Subroto RT. 02/09 Sidanegara, Central Cilacap, Cilacap, Central Java. The implementation for recording all sales and purchases of goods at this store still uses books or manuals so that it utilizes a website-based system for recording sales and purchase transactions using the PHP programming language whose data is stored in a database.

The confidentiality of the database becomes very important, so it needs to be protected by using certain algorithms. Caesar cipher algorithm is one of the algorithms used to secure confidential or private data by encrypting it. This encryption aims so that when the data is stored into the database the data is encrypted. The encryption process is carried out by encrypting the sales and purchase transaction data of stationery stored in a MySQL database using a certain key.

The results of implementing cryptography in application development reduce data leakage, both transaction data and other data stored in the database.

Keywords: PHP, Website, Encryption, Cryptography, Caesar Cipher