

ABSTRACT

Information exchange and message delivery have been using the internet a lot, one of which is email (electronic mail). Over time, message and information security issues emerged in e-mail messages. Problems that are often encountered are active tapping, passive tapping, fraud and data manipulation by unrelated parties. In this final project research, the author makes an email security application using the vigenere cipher method. This vigenere cipher algorithm is a method of encoding the text of the alphabet by using a series of cesarean codes based on the letters in the keywords. This problem will be investigated to create an application that is useful for changing email messages that require security to avoid active tapping of a cracker. Security is carried out using cryptography. With encryption and decryption, plain text messages (plaintext) will be converted into a message that is not easy to read (ciphertext) using a key. So, the message will arrive safely to the recipient without experiencing the slightest change in content from irresponsible parties.

Keywords: Encryption, Cryptography, Email Message, Vigenere Cipher