

IMPLEMENTATION OF THE CAESAR CIPHER ALGORITHM BY HIDING THE MESSAGE USING THE LEAST SIGNIFICANT BIT (LSB) METHOD ON THE FORM

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ABSTRACT

The rapid development of technology today, thus making various conveniences. The number of user needs, makes the system has many loopholes for theft and data destruction by irresponsible people. The way that can be used to solve this problem for now is to convert the user's message into other characters that the thief can't recognize, or what can be called cryptography and hide user messages to other media, such as images, sound recordings, music, videos, and characters, or what can be called steganography. In building the system, the researcher combines cryptography and steganography to get layered security without reducing or destroying the user's original message that will be inserted or hidden, the media that will be used for hiding is an image. The cryptographic algorithm and steganography method used are the Caesar Cipher algorithm and the Least Significant Bit (LSB) method. Caesar Cipher algorithm is one of the encryption techniques where each letter in the original text (plaintext) is replaced by another letter that has a certain position difference in the alphabet. While the Least Significant Bit (LSB) method is one method by replacing the last bits in the image by replacing it with message bits. The result of this research is to encrypt the message by generating ciphertext and hiding the message to the image which produces a stego image on the form data.

Keywords: LSB, Caesar Cipher, Desktop, Python