**Topic: Image Encryption and Decryption**

# Abstract

Images are widely used in various processes. Therefore, the security of image data from unauthorized uses is important. Image encryption plays a important role in the field of information security. Encryption is a process which uses a finite set of instruction called an algorithm to convert original message, known as plaintext, into cipher text, its encrypted form. Cryptography normally require a set of characters called a key to encrypt or decrypt data. With the help of key we can encrypt or Decrypt the plaintext into cipher text and then cipher text back into plaintext.

This project is made via using java(swing). Initially we need to provide the key for encryption .Now the user can get access to files and select the particular image from the device. Now the encryption process is carried out and the user will get confirmation message once the process is finished. No one can see the content of the image.

If the user wants to access the content of the image then the same process can be followed for decryption purpose as well, but the key entered should be the same one from encryption as it's a symmetric key cryptography.