

**INFORMATION SECURITY LAB PROJECT [2022-23]**

**TITLE- CREGANOGRAPHY**

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**ABSTRACT**

Steganography can be used to conceal almost any type of digital content, including text, image, video, or audio content; the data to be hidden can be hidden inside almost any other type of digital content. The content to be concealed through steganography -- called hidden text -- is often encrypted before being incorporated into the innocuous-seeming cover text file or data stream. If not encrypted, the hidden text is commonly processed in some way in order to increase the difficulty of detecting the secret content.

Using a multilevel approach, the main objective of this project is to provide high-level security to sensitive digital data against steganalysis techniques, while keeping the operational time low. This objective can be achieved by encrypting and authenticating the image that has the user’s sensitive data and then embedding the resultant document onto a carrier.

This program basically hides an image inside another image (carrier) using bit manipulation and AES and SHA encryption and hashing techniques.