Security And Forensics Lab

5th November 2024

Assignment - 10

1. Develop a program to embed a short text message within an image using the Least Significant Bit (LSB) technique.

Assignment Details:

- Write a program that hides a short text message within the LSBs of an image file (e.g., `.bmp` or `.png`).
- Allow the user to specify both the image file and the message to be embedded.
- Implement a function to retrieve and display the hidden message from the image.
- Provide an option for the user to choose between embedding the message in the red, green, or blue colour channels.
- Only short text messages should be embedded, with no encryption applied.
- Assume the message embedding starts from pixel (1,1).