Project 13: Steganography Tool for Image/File Hiding

# Objective

Hide text or files inside images using steganography.

# Tools Used

Python, PIL (Pillow), Tkinter

# Features

• Convert message to binary and embed in image using LSB

• Allow image upload and message hiding

• Extract and decrypt hidden message

• GUI with drag-and-drop functionality

• Support PNG and BMP formats

# How It Works

This tool modifies the least significant bits of pixel values in an image to hide binary data corresponding to a message. A specific end-sequence (`11111110`) marks the end of the message.

# Steps to Use

1. Select an image.  
2. Enter the message.  
3. Encode and save the modified image.  
4. Use Decode to read the message from the modified image.