Image \ Text Steganography

# Description:

Encryption program based on two techniques Steganography and Cryptography (using Enigma machine algorithm) using some GUI tools help us to read images in binary.

# How we make this?

We’ll work on those techniques parallel focusing on Steganography:

## First:

Create image viewer GUI Desktop application using c# or another language that makes: a. Open bitmap image from the disk.  
b. Read a text file containing pixels’ values of an image and convert it to bitmap then view it.  
c. Save loaded image as a bitmap.  
d. Save loaded image as a text file.

## Second:

Create text Hiding Application using assembly language program to parse the text file generated by your image viewer and use it to hide secret messages.  
\*Maximum message size is 1000 characters.  
You should prompt the user to select from two choices:

1. Retrieve hidden message

* You should ask the user to enter the path of image txt file.
* Retrieve the secret message using LSB method.

1. Hide given message

* You should ask the user to enter the path of image txt file.
* Then ask him to enter the secret message.
* Hide it using LSB method and update the image txt file.
* Open the image txt file with your image viewer to see the image after hiding the message.

## Third:

Create Enigma simulator to encrypt text before hide it into image, enigma simulator contains 3 rotors, reflector and 3 inverses for rotors and begin with plug to change letters [optional].