Expt. No.

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Title of Experiment : Steganography Detection

Date

Sub titles : Assignment/ Problem Solution, Flow chart/Algorithm, Problem Listing,
Input Screen, Output Screen, Comments (If any)

Aim :- ① Detect hidden information or files within digital images using steganography analysis tools.

⑪ Extract and examine the hidden content.

Theory :-

- A steganography technique involves hiding sensitive information with an ordinary, non-secret file or message, so that it will not be detected.

- The sensitive info. will then be extracted from the ordinary file or message at its destination, thus avoiding detection.

- Steganography is an additional step that can be used in conjuction with encryption in order to conceal or protect data.

- You can use steganography to hide text, video, images, or even audio data.

- There are different types of steganography -

① Text steganography

⑪ Image steganography

⑪⑪ Audio steganography

Ⓘ Video Steganography

Ⓥ Network and Protocol steganography.

Remark

Signature

① Text steganography :-
- There is a steganography in text files which entails secretly storing information
- In this method, the hidden data is encoded into the letter of each word.

② Image Steganography :-
- In this type it entails concealing data by using an image of a different object as a conversion.

③ Audio steganography :-
- It is the science of hiding data in sound used digitally, it protect against unauthorized reproduction.

④ Video Steganography :-
- Video steganography is a method of secretly embedding data or other files within a video file on computer.

⑤ Network or Protocol steganography :-
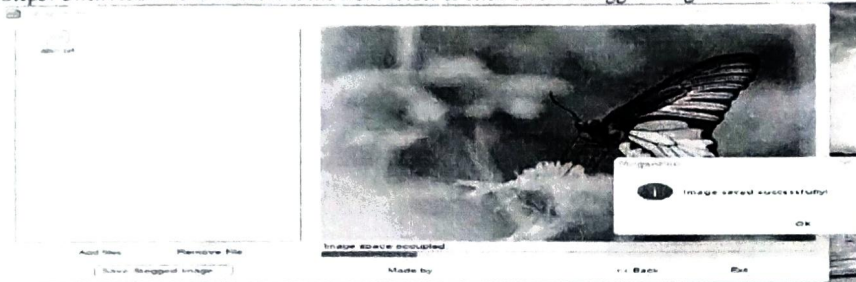- It involves concealing data by using a network protocol like TCP, UDP, TCMP, IP, etc.

Aim :Steganography Detection - Detect hidden information or files within digital images using steganography analysis tools.

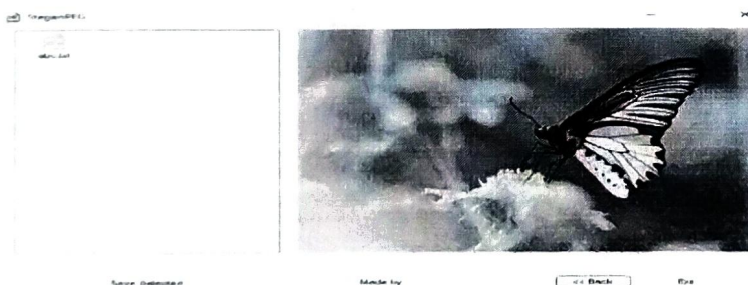Step1 Create new folder & create text file & download any .jpg image

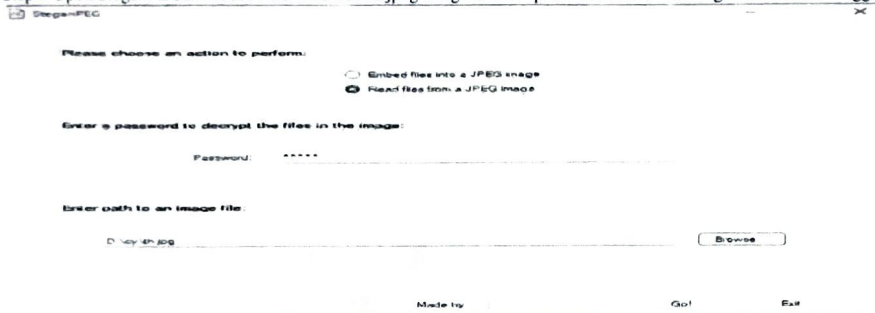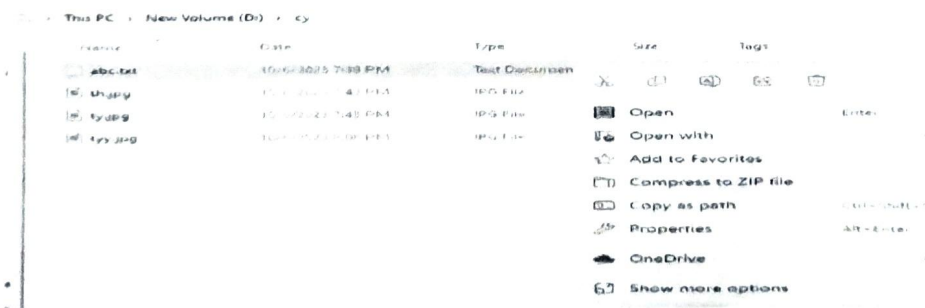Step2 Open StagenPEG software & type any password & browse location of jpg image& click on go button.

Step3 Click Add files & select text file from folder & click on save stegged image & click ok & close it.

Step4 Open SteganPEG& choose read files from a jpeg image & enter password & browse image which is not stegged image & click on go button.

Step5: Make a zip file of the text file.

Step6: Go to Command Prompt and Type the Syntax.

```
Command Prompt                                    X    +   ~

Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.

C:\Users\anjal>D:

D:\>cd cy

D:\cy>copy /b tyy.jpg + abc.rar
tyy.jpg
abc.rar
        1 file(s) copied.
```

Step7. Then create a shortcut for WinRAR on the desktop.

Step8. Right Click on the image>Open with > Choose another app >choose an app on your pc& then Desktop >Shortcut created of WinRAR and Select Just Once then click text file.

Choose an app on your PC

| File name: | WinRAR | | Programs (*.exe;*.pif;*.com;*.b... |
| | | | Open   Cancel |

tyy.jpg (evaluation copy)

File   Commands   Tools   Favorites   Options   Help

Add   Extract To   Test   View   Delete   Find   Wizard   Info   VirusScan   Commen

tyy.jpg - SFX ZIP archive, unpacked size 15 bytes

Name	Size	Packed	Type	Modified	CRC32
			File folder		
abc txt	15	15	Text Document	10/6/2023 7:39 ...	2AFC8107