Ex.No.8 Use Steg-Expose to detect hidden data in images

AIM:

To hide a secret text message inside an image file and extract it back using Stegosuite in Kali Linux.

PROCEDURE:

StegExpose is a tool used to detect hidden data in images using steganography analysis. It works by evaluating the statistical properties of an image to estimate whether any hidden data is embedded. Below is a step-by-step guide on how to use StegExpose to detect hidden data in images:

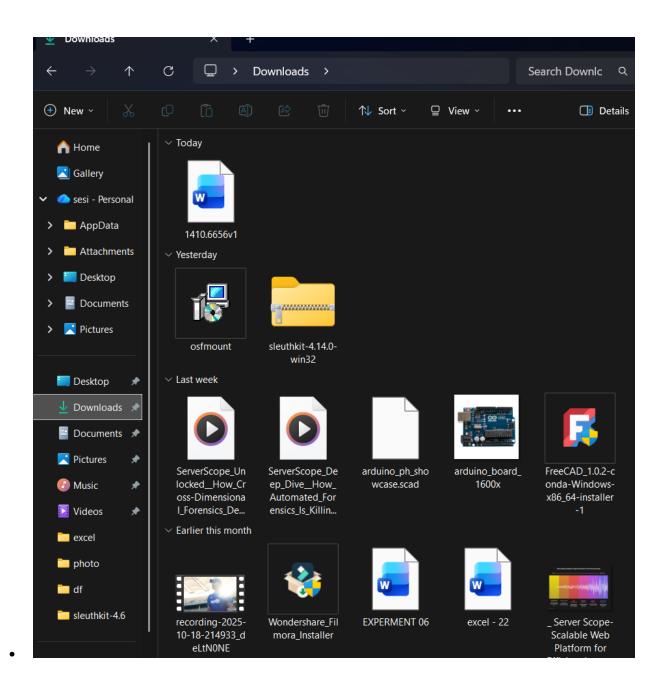
Prerequisites:

- 1. **Java Runtime Environment (JRE)**: StegExpose is a Java-based tool, so ensure you have JRE installed.
- 2. StegExpose Tool: Download StegExpose from the official GitHub repository.

Step-by-Step Process:

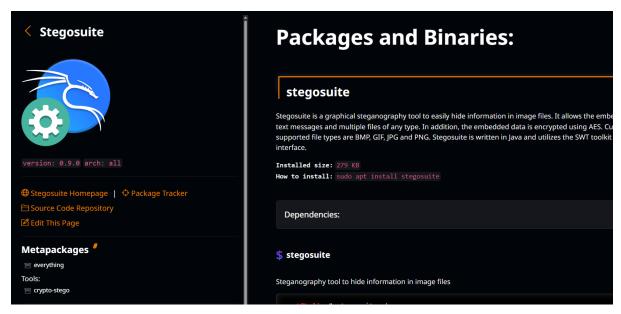
1. Download and Set Up StegExpose:

- **Download the tool**: Go to <u>StegExpose GitHub</u> and download the .jar file.
- **Install Java**: Ensure that Java is installed on your machine. You can download it from the official site.
- **Prepare environment**: Place the .jar file in a folder where you plan to work on the image









```
(kali⊗kali)-[~]
$ stegosuite gui
Loading jpg image from /home/kali/Downloads/Yamirukka-Bayamen-Tamil-A4-Muruga
n-Poster-For-Room-1-scaled.jpg
Saving jpg image to /home/kali/Downloads/Yamirukka-Bayamen-Tamil-A4-Murugan-P
oster-For-Room-1-scaled_embed.jpg

(kali⊗kali)-[~]
$ stegosuite gui
```

```
kali@kali: ~
File Actions Edit View Help
 —(kali⊗kali)-[~]
sudo apt install stegosuite
sudo] password for kali:
Installing:
Installing dependencies:
Summary:
 Upgrading: 0, Installing: 5, Removing: 0, Not Upgrading: 1343
 Download size: 2,520 kB
Space needed: 3,938 kB / 57.1 GB available
Continue? [Y/n] y
5et:1 http://mirror.kku.ac.th/kali kali-rolling/main amd64 libpicocli-java al
4.6.2-2 [390 kB]
Get:2 http://kali.download/kali kali-rolling/main amd64 libswt-gtk-4-jni amd6
4 4.29.0-1 [164 kB]
Set:4 http://kali.download/kali kali-rolling/main amd64 libswt-gtk-4-java amd
54 4.29.0-1 [1,737 kB]
Get:3 http://mirror.kku.ac.th/kali kali-rolling/main amd64 libswt-cairo-gtk-4
-jni amd64 4.29.0-1 [25.0 kB]
5et:5 http://kali.download/kali kali-rolling/main amd64 stegosuite all 0.9.0-
1 [205 kB]
Fetched 2,520 kB in 13s (193 kB/s)
```