Steganography [Activity]

1.Embed the file 'secretmessage.txt' inside the cover file 'coverfile.jpg' and name the output stegofile 'hiddenmessage.jpg'. What is the full command you would use to do this? steghide embed -cf coverfile.jpg -ef secretmessage.txt -sf hiddenmessage.jpg

```
nitin@fedora ~/D/SBT_Steg_Lab> steghide embed -cf coverfile.jpq -ef secretmessage.txt -sf hiddenmessage.jpg
Enter passphrase:
Re-Enter passphrase:
embedding "secretmessage.txt" in "coverfile.jpg"... done
writing stego file "hiddenmessage.jpg"... done
```

2.Flag 1 is hidden inside a text file in one of the steganography files. What is the value? Try the hit and trail method to extract the hidden file inside a file using the steghide extract -sf filename command for all the files in the directory Stego Files. The flag value is kAN105KS.

```
nitin@fedora ~/D/SBT_Steg_Lab> cd Stego\ Files/
nitin@fedora ~/D/S/Stego Files> 1s
209583__zott820__oven-mitt-impact.wav 330299__maycuddlepie__siren.mp3 car.jpeg cityscape.jpg
nitin@fedora ~/D/S/Stego Files> steghide extract -sf 209583_zott820_oven-mitt-impact.wav
Enter passphrase:
steghide: could not extract any data with that passphrase!
nitin@fedora ~/D/S/Stego Files [1]> steghide extract -sf 330299 __maycuddlepie__siren.mp3
steghide: the file format of the file "330299_maycuddlepie_siren.mp3" is not supported.
nitin@fedora ~/D/S/Stego Files [1]> steghide extract -sf car.jpeg
Enter passphrase:
steghide: could not extract any data with that passphrase!
nitin@fedora ~/D/S/Stego Files [1]> steghide extract -sf cityscape.jpg
Enter passphrase:
steghide: could not extract any data with that passphrase!
nitin@fedora ~/D/S/Stego Files [1]> steghide extract -sf pizza.jpg
Enter passphrase:
wrote extracted data to "FLAG1.txt".
nitin@fedora ~/D/S/Stego Files> 1s
209583__zott820__oven-mitt-impact.wav 330299__maycuddlepie__siren.mp3 car.jpeg cityscape.jpg
nitin@fedora ~/D/S/Stego Files> cat FLAG1.txt
kAN105KS
```

3.Flag 2 is hidden inside a text file in one of the steganography files. What is the value? Again try the same method, how to the 2^{nd} question was done. Try the hit and trail method to extract the hidden file inside a file using the steghide extract -sf filename command for all the files in the directory Stego Files. The flag value is 001JDANL.

```
nitin@fedora ~/D/S/Stego Files [1]> steghide extract -sf verypretty.jpq
Enter passphrase:
wrote extracted data to "FLAG2.txt".
nitin@fedora ~/D/S/Stego Files> cat FLAG2.txt
001JDANL
nitin@fedora ~/D/S/Stego Files>
```

4.Flag 3 is hidden inside a text file in one of the steganography files. What is the value? Similar to the 2^{nd} and 3^{rd} questions. The flag value is 1LRBA9IU.

```
nitin@fedora ~/D/S/Stego Files [1]> steghide extract -sf car.jpeg
Enter passphrase:
wrote extracted data to "FLAG3.txt".
nitin@fedora ~/D/S/Stego Files> cat FLAG3.txt
1LRBA9IU
nitin@fedora ~/D/S/Stego Files>
```