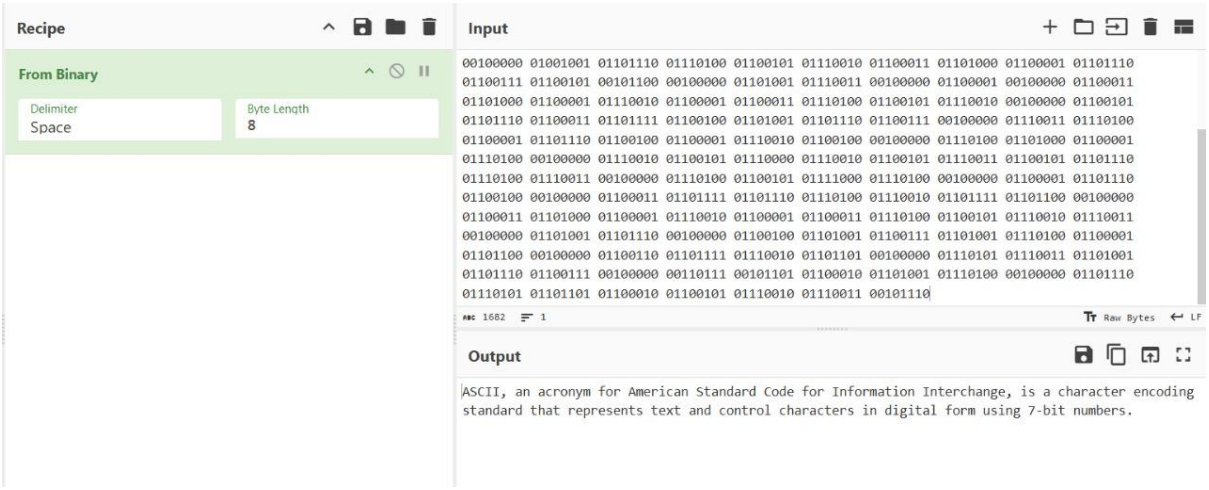
CYBERSECURITY TRAINING

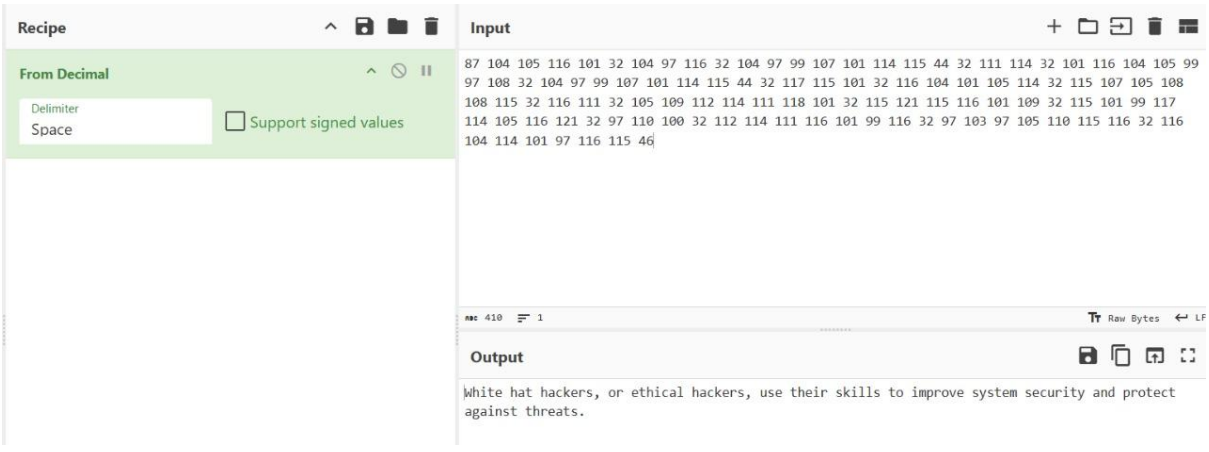
(WEEK 2 – Day6)

Practical Implementation of Cryptography

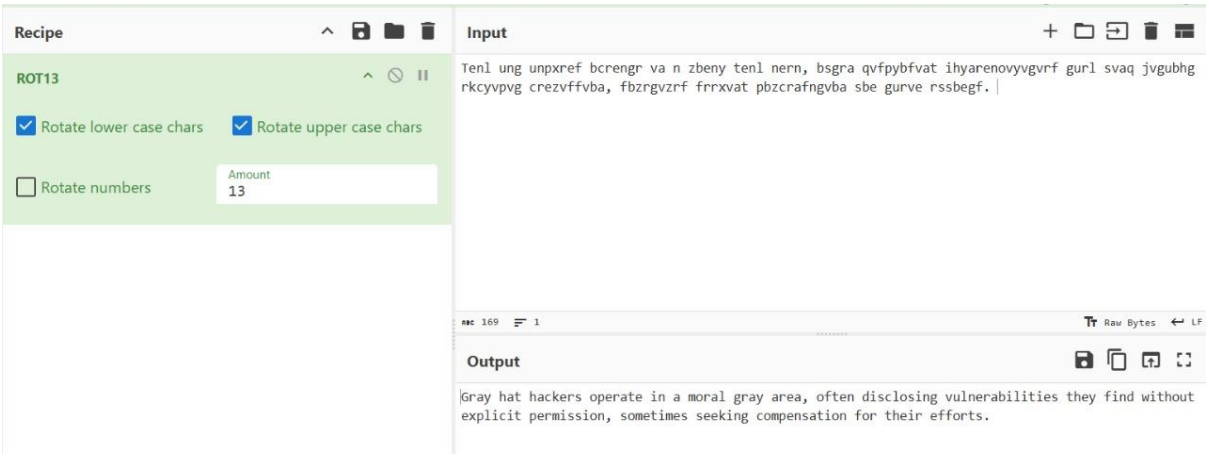
1.



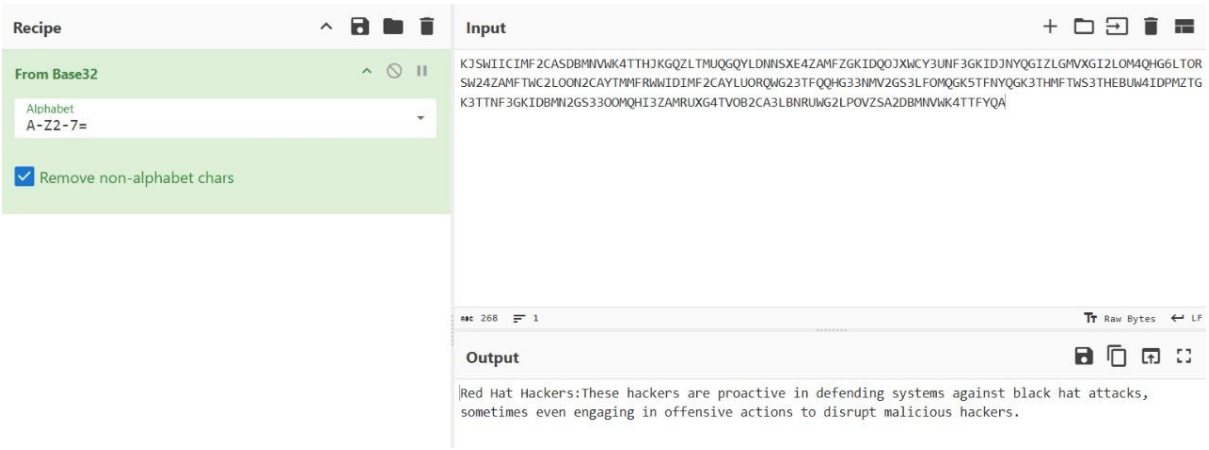
2.



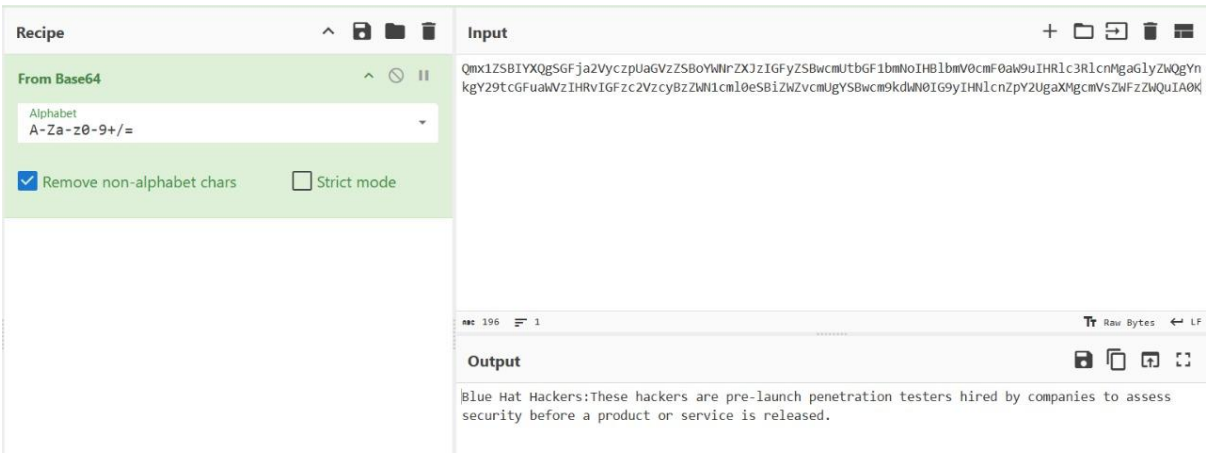
3.


Recipe
ROT13
Rotate lower case chars
Rotate upper case chars
Rotate numbers
Amount
13
Input
Tenl ung unpxref bcrengr va n zbeny tenl nern, bsgra qvfpybfvat ihyarenovyvgvrf gurl svaq jvgubhg rkcyvpvg crezvffvba, fbzrgvzrf frrxvat pbzcrafngvba sbe gurve rssbegf.
169
1
Raw Bytes
LF
Output
Gray hat hackers operate in a moral gray area, often disclosing vulnerabilities they find without explicit permission, sometimes seeking compensation for their efforts.

4.


Recipe
From Base32
Alphabet
A-Z2-7=
Remove non-alphabet chars
Input
KJSWIICIMF2CASDBMNVWK4TTHJKGQZLTMUQGQYLDNNSXE4ZAMFZGKIDQOJXWCY3UNF3GKIDJNYQGIZLGMVXGI2LOM4QHG6LTOR SW24ZAMFTWC2LOON2CAYTMMFRWWIDIMF2CAYLUORQWG23TFQQHG33NMV2GS3LFOMQGK5TFNYQGK3THMFTWS3THEBUW4IDPMZTG K3TTNF3GKIDBMN2GS33OOMQHI3ZAMRUXG4TVOB2CA3LBNRUWG2LPOVZSA2DBMNVWK4TTFYQA
268
1
Raw Bytes
LF
Output
Red Hat Hackers:These hackers are proactive in defending systems against black hat attacks, sometimes even engaging in offensive actions to disrupt malicious hackers.

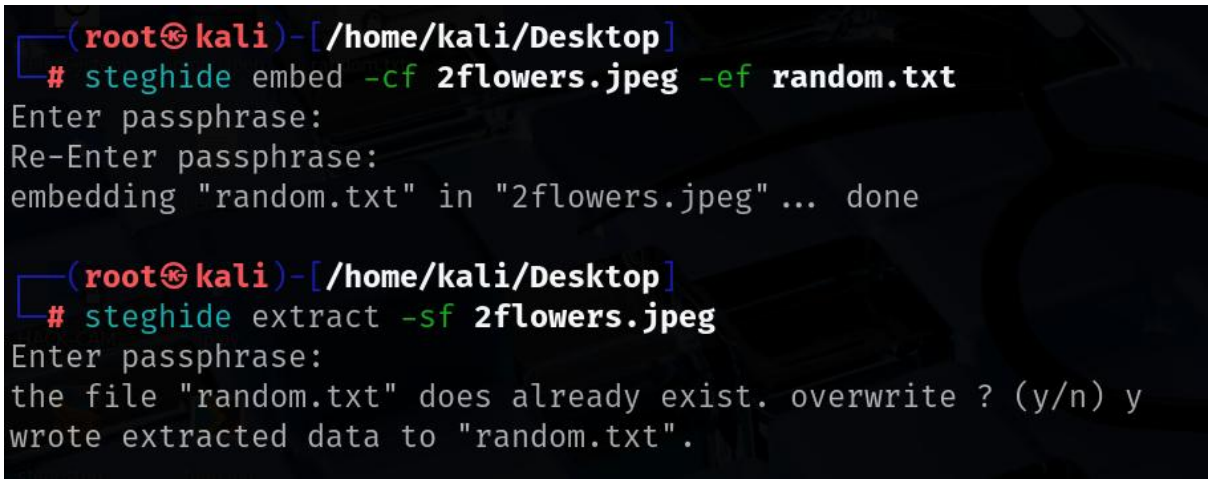
5.


Recipe
From Base64
Alphabet
A-Za-z0-9+/=
Remove non-alphabet chars
Strict mode
Input
Qmx1ZSBIYXQgSGFja2VyczpUaGVzZSBoYWNrZXJzIGFyZSBwcmUtbGF1bmNoIHBlbmV0cmF0aW9uIHRlc3RlcnMgaGlyZWQgYnkgY29tcGFuaWVzIHRvIGFzc2VzcyBzZWN1cml0eSBiZWZvcmUgYSBwcm9kdWN0IG9yIHNlcnZpY2UgaXMgcmVsZWFzZWQuIA0K
196
1
Raw Bytes
LF
Output
Blue Hat Hackers:These hackers are pre-launch penetration testers hired by companies to assess security before a product or service is released.

Practical implementation of Stegnography

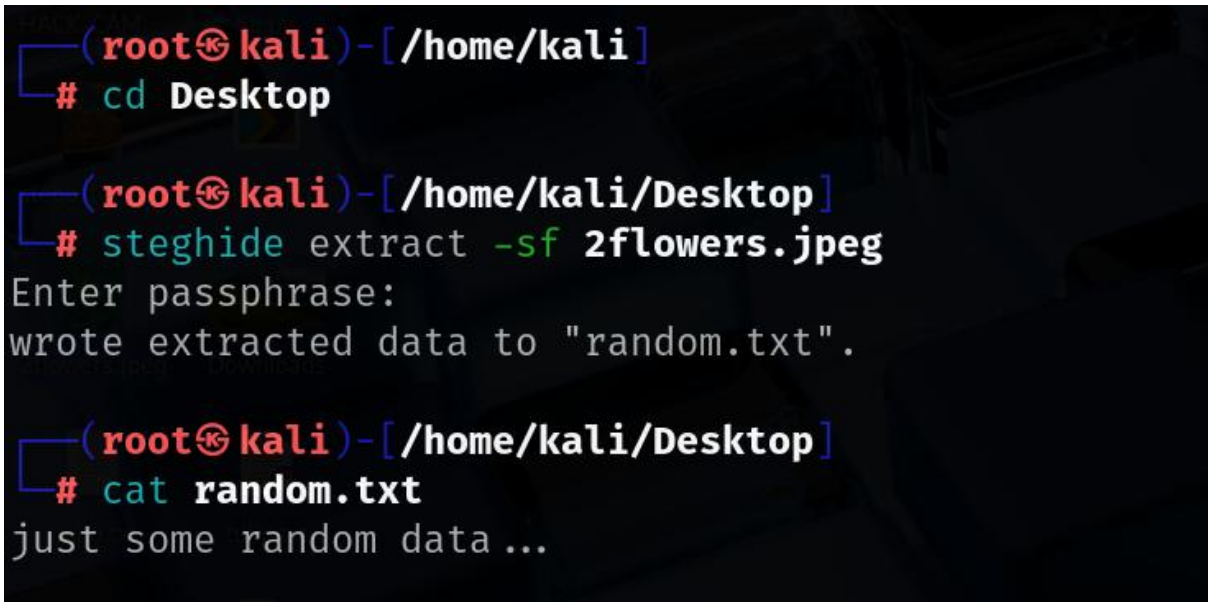
Step 1:

Step 2:



Step 3:

Step 4:


┌──(root㉿kali)-[/home/kali]
└─# cd Desktop
┌──(root㉿kali)-[/home/kali/Desktop]
└─# steghide extract -sf 2flowers.jpeg
Enter passphrase:
wrote extracted data to "random.txt".
┌──(root㉿kali)-[/home/kali/Desktop]
└─# cat random.txt
just some random data ...