1) Cipher 1:

a. Screenshot of the board with ciphertext displayed (4 points)



b. Name of the classic cipher

(2 points) Bacon's Cipher

c. Key

(2 points)
AAAAA = "a", AAAAB = "b", AAABA = "c" BBAAB = "z"

d. Plaintext message

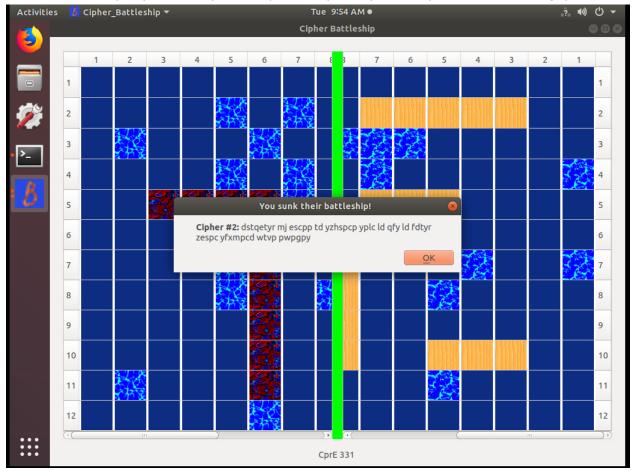
(4 points)
APERTURELABORATORIES

2) Cipher 2:

a. Screenshot of the board with ciphertext displayed

(4 points)

Cipher #2: dstqetyr mj escpp td yzhspcp yplc ld qfy ld fdtyr zespc yfxmpcd wtvp pwpgpy



b. Name of the classic cipher

(2 points) Caesar Cipher

c. Key

(2 points)

Shift forward by 11 (A == L and S == D)

d. Plaintext message

(4 points)

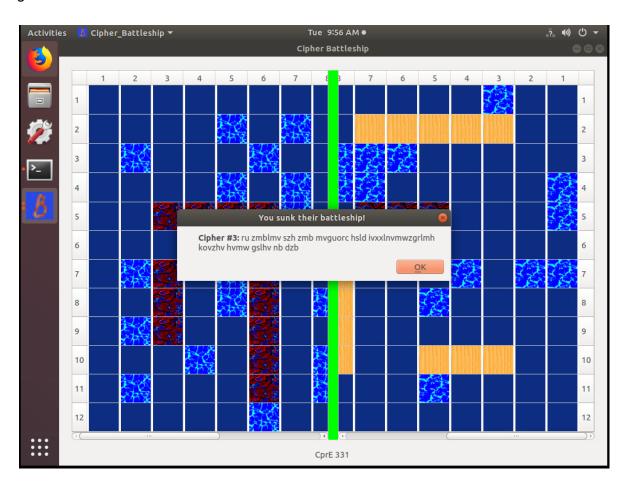
shifting by three is nowhere near as fun as using other numbers like eleven

3) Cipher 3:

a. Screenshot of the board with ciphertext displayed

(4 points)

Cipher #3: ru zmblmv szh zmb mvguorc hsld ivxxlnvmwzgrlmh kovzhv hvmw gslhv nb dzb



b. Name of the classic cipher

(2 points)

Atbash

c. Key

(2 points)

Flip the alphabet in reverse (A = Z, M = N, and S = H)

d. Plaintext message

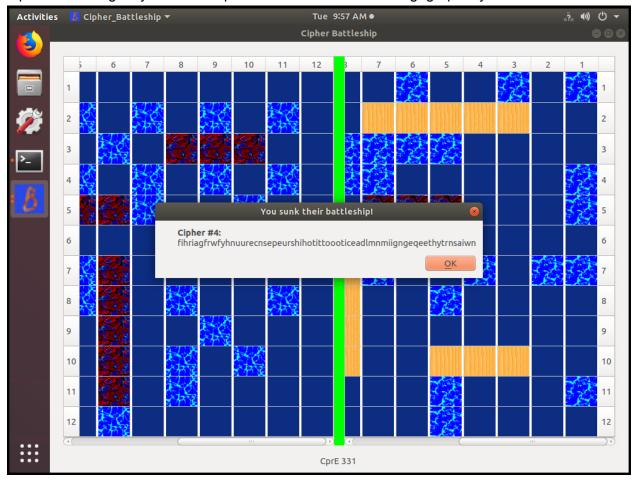
(4 points)

if anyone has any netflix show reccomendations please send those my way

4) Cipher 4:

a. Screenshot of the board with ciphertext displayed (4 points)

Cipher #4: fihriagfrwfyhnuurecnsepeurshihotittoooticeadlmnmiigngeqeethytrnsaiwn



b. Name of the classic cipher

(2 points)

Rail Fence (Zig-zag)

c. Key

(2 points)

Message is read diagonally of the text going top to bottom then bottom to top, repeating

d. Plaintext message

(4 points) (No spaces)

FENCING SHEEP REQUIRES A HEIGHT OF THIRTY TWO TO FORTY INCHES AND ALUMINUM WIRING

5) Cipher 5:

a. Screenshot of the board with ciphertext displayed

(4 points)

Cipher #5: RS ADT UCG YGDIU NI CMGNX RMSGFGCSSRKO UGRQ NKSRWFSGG QCG EGXCMKSKGMU NC KLHMX RLE DFSCGIT SGDCMRSPMX BKA GEXHTEXRMD R SMXIQIHG UM UGRQ KONW UGM ETYGMEGG AGDFSEMTY DFT GDIE AS Y



b. Name of the classic cipher

(2 points)

Play Fair

c. Key

(2 points)

"Fair" w/o J

d. Plaintext message

(4 points)

IT WAS THE TREAT OF ENEMY INTERCEPTION THAT MOTIVATED THE DEVELOPMENT OF CODES AND CIPHERS TECHNIQUES FOR DISGUISING A MESXSAGE SO THAT ONLY THE INTENDED RECIPIENT CAN READ IT X

6) New "classic" cipher

BoiCipher:

Shift cipher but with a twist.

Each character in the text is shifted by (index of text + 1) * (shift value) and the text is flipped beforehand

Usage:

- -h: print help information
- -e: encrypt text (needs -t and -k set)
- -d: decrypt text (needs -t and -k set)
- -k: the shift value (integer)
- -t: text to encrypt/decrypt (string)

a. Function to encrypt any given plaintext

(15 points)

Made encrypt(text : str, key : int) -> str in BoiCipher.py

Can be used via command line with -e option

Ex:

```
> ./BoiCipher.py -e -k 115 -t "How is it going"
Encrypted text: rjpgjhhcdcfj
```

b. Function to decrypt a given ciphertext

(15 points)

Made decrypt(text : str, key : int) -> str in BoiCipher.py

Can be used via command line with -d option

Ex:

```
> ./BoiCipher.py -d -k 115 -t "rjpgjhhcdcfj"
Decrypted text: howisitgoing
```

c. Follows specifications

(5 points)

d. Function name

(5 points)