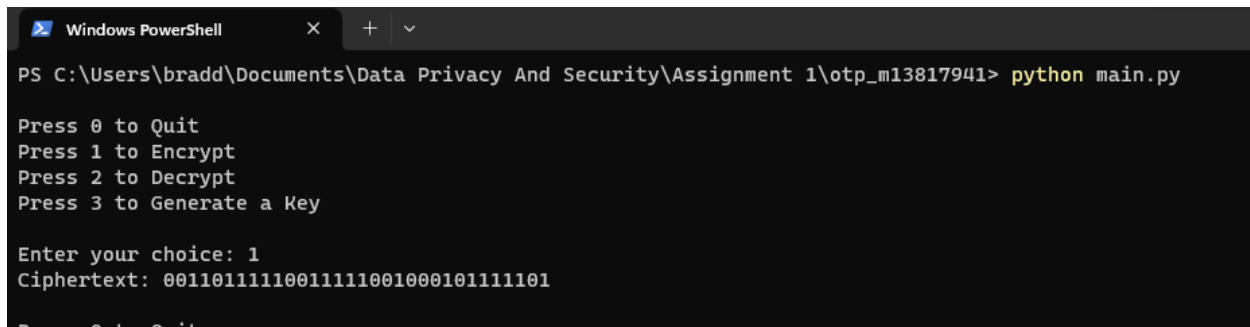


CS 5158 Project 1 OTP Report – Brad Didier

My code was compiled and ran on Windows using Windows PowerShell. I am on Python 3.10.

To run this program, simply launch the main.py file located in the otp_m13817941 folder. This can be done using the command “python main.py” while in the otp_m13817941 directory. No launch parameters are required, as the location of the .txt files are mapped relatively in the functions and parameters for specific functions like KeyGeneration() are asked for at runtime.

Encryption Function:

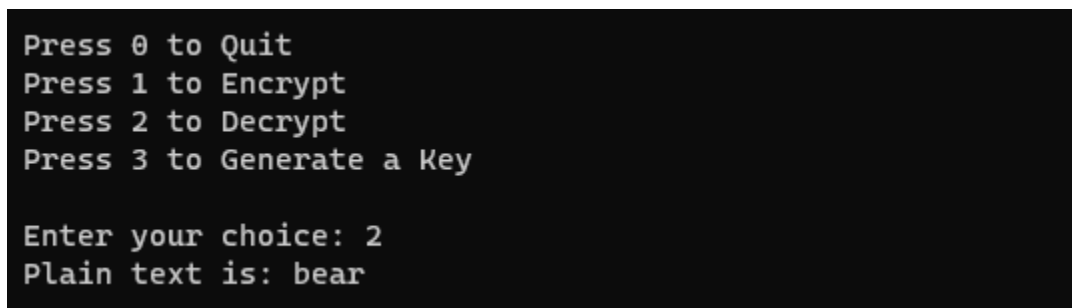


```
Windows PowerShell
PS C:\Users\bradd\Documents\Data Privacy And Security\Assignment 1\otp_m13817941> python main.py

Press 0 to Quit
Press 1 to Encrypt
Press 2 to Decrypt
Press 3 to Generate a Key

Enter your choice: 1
Ciphertext: 0011011111001111001000101111101
Press 0 to Quit
```

Decryption Function:



```
Press 0 to Quit
Press 1 to Encrypt
Press 2 to Decrypt
Press 3 to Generate a Key

Enter your choice: 2
Plain text is: bear
```

KeyGeneration Function:

Press 0 to Quit
Press 1 to Encrypt
Press 2 to Decrypt
Press 3 to Generate a Key

Enter your choice: 3
Enter key length: 20
00000011001001100011

Press 0 to Quit
Press 1 to Encrypt
Press 2 to Decrypt
Press 3 to Generate a Key

Enter your choice: 3
Enter key length: 100
100100001010100010111011100000001001101110111101000110110111010000011101011101110111100111111110000

Press 0 to Quit
Press 1 to Encrypt
Press 2 to Decrypt
Press 3 to Generate a Key

Enter your choice: 3
Enter key length: 200
Invalid key length given