Requirements

Python 3.7

I used MacOS, but can be run on any OS that has python 3.7.

Running

To encrypt:

python3 ./src/main.py encrypt

To decrypt:

python3 ./src/main.py decrypt

If you want to change the encryption, just modify the key.txt file.(keep in mind it can only be 4 chars)

To run key generator:

python3 ./src/main.py key generator

It will prompt you to enter lambda, and then calculate.

Outputs

Encryption screenshot:

Cadens-MacBook-Pro:otp_m08509012 cadenlawrence\$ python3 ./src/main.py encrypt 0b10111000000100000101000110000001

- The 0b is pythons method to say it is binary and base 2.
- Also outputs in corresponding file.

Decryption output:

Cadens-MacBook-Pro:otp_m08509012 cadenlawrence\$ python3 ./src/main.py decrypt bear

Also outputs in corresponding file.

Key Generator output:

```
Cadens-MacBook-Pro:otp_m08509012 cadenlawrence$ python3 ./src/main.py key_generator
How many bits do you want it to be? 32
4.0
eq2S
Cadens-MacBook-Pro:otp_m08509012 cadenlawrence$ python3 ./src/main.py key_generator
How many bits do you want it to be? 100
0MwZ8QR5E43P
```

Also outputs in corresponding file.