

# Cryptography Poject

```
In [1]: from cryptography.fernet import Fernet
```

```
In [4]: def generatePassKey():  
        key = Fernet.generate_key()  
        print(key)  
        print(type(key))  
        return key
```

```
In [5]: generatePassKey()
```

```
b'kSmk-23zJUBMydsn9N4WlMyRMG2SQRDEQKJt1Ti0CCs='  
<class 'bytes'>
```

```
Out[5]: b'kSmk-23zJUBMydsn9N4WlMyRMG2SQRDEQKJt1Ti0CCs='
```

```
In [7]: def getMyKey():  
        abc = open("PasswordKey.Key", 'rb')  
        return abc.read()
```

```
In [8]: getMyKey()
```

```
Out[8]: b'vZCva3-aYjrkoN4u6r7xmqA4Q0X1Semh3bKnwwlK_2s='
```

```
In [12]: def getContentFromUser():  
        return input("Enter the content you want to Encrypt in your python script ")
```

```
In [13]: getContentFromUser()
```

```
Enter the content you want to Encrypt in your python script Hey I Love LetsUpgr  
ade
```

```
Out[13]: 'Hey I Love LetsUpgrade'
```

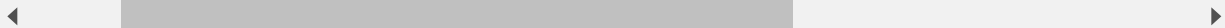
```
In [14]: def encryptMessage(message_normal):  
        key = getMyKey()  
        k = Fernet(key)  
        encrypted_Message = k.encrypt(message_normal)  
        return encrypted_Message
```

```
In [15]: encryptMessage(b"Hey My ATM Pin Is 3042")
```

```
Out[15]: b'gAAAAABf2wilb8Nplyi5TzVl1oyJeF_Naz5Nip-H7aox5TZVVKZscj7_Tgd8jZS1v6Z-2EhEYdM1N  
YAgOp9unOJPR-r1oBp5DQ-C0d2Uapy_0Wh8l8DmZ9k='
```

```
In [16]: def decryptMessage(message_secret):  
         key = getMyKey()  
         k = Fernet(key)  
         decrypted_Message = k.decrypt(message_secret)  
         return decrypted_Message
```

```
In [17]: sage(b'gAAAAABf2wilb8Nplyi5TzVl1oyJeF_Naz5Nip-H7aox5TZVvkZscj7_Tgd8jZS1v6Z-2EhEYdl
```



```
Out[17]: b'Hey My ATM Pin Is 3042'
```

```
In [ ]:
```