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-2EhEYdMlN
YAgOp9unOJPR-r1oBp5DQ-COd2Uapy_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-2EhEYdI
```

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

In [ ]:
```

```