# Cryptogrphy

```
Day 5 Assignment
In [2]:
!pip install cryptography
Requirement already satisfied: cryptography in c:\users\priya\anaconda3\lib
\site-packages (3.1.1)
Requirement already satisfied: six>=1.4.1 in c:\users\priya\anaconda3\lib\si
te-packages (from cryptography) (1.15.0)
Requirement already satisfied: cffi!=1.11.3,>=1.8 in c:\users\priya\anaconda
3\lib\site-packages (from cryptography) (1.14.3)
Requirement already satisfied: pycparser in c:\users\priya\anaconda3\lib\sit
e-packages (from cffi!=1.11.3,>=1.8->cryptography) (2.20)
In [3]:
from cryptography.fernet import Fernet
In [4]:
def generatepasskey():
    key = Fernet.generate_key()
    print(key)
    print(type(key))
    abc = open("dharakey.key","wb")
    abc.write(key)
    abc.close
In [6]:
generatepasskey()
b'6BdXUVHFigqtoukZPsTkkcp8YXAUJw2xCE-2WZNTbMc='
<class 'bytes'>
In [8]:
def Getmykey():
    abc=open("dharakey.key","rb")
    return abc.read()
In [9]:
Getmykey()
Out[9]:
b'6BdXUVHFigqtoukZPsTkkcp8YXAUJw2xCE-2WZNTbMc='
In [11]:
def getcontentfromuser():
    return input("Enter the content you want to Encrypt in your oython scripts")
```

```
In [12]:
getcontentfromuser()
```

Enter the content you want to Encrypt in your oython scriptsDontgiveup

```
Out[12]:
```

'Dontgiveup'

## In [17]:

```
def encryptmessage(normal_message):
    key = Getmykey()
    k = Fernet(key)
    encrypted_message = k.encrypt(normal_message)
    return encrypted_message
```

#### In [18]:

```
encryptmessage(b"hey!how are you")
```

#### Out[18]:

b'gAAAAABf3EKaccSi2OhFo-Xmv0PTg71O3XkQmjdf14d5J0fXNgfyfmLOFKNGpGu98mgpeKgS\_QehFC3It5WKmQs-i1qTZD7d4A=='

#### In [19]:

```
def decryptmessage(message_secret):
    key = Getmykey()
    k = Fernet(key)
    decrypted_message = k.decrypt(message_secret)
    return decrypted_message
```

### In [20]:

decryptmessage(b'gAAAAABf3EKaccSi2OhFo-Xmv0PTg7103XkQmjdf14d5J0fXNgfyfmL0FKNGpGu98mgpeKgS\_Q

## Out[20]:

b'hey!how are you'

#### In [ ]: