

Ishaan Mehta E18CSE069 EB02 LabWeek1

```
In [1]: #Question1
a =int(input(("Select 1: To Encrypt \nSelect 2: To Decrypt\n\n=>")))
Message=input("Enter Message: ")
Key=int(input("Enter Key: "))
output = ""
if a == 1:
    for i in range(len(Message)):
        output = output + (str(chr(ord(Message[i])+Key)))
if a == 2:
    for i in range(len(Message)):
        output = output + (str(chr(ord(Message[i])-Key)))
print(output)
```

Select 1: To Encrypt
Select 2: To Decrypt

=>1
Enter Message: My Name is Ishaan Mehta
Enter Key: 4
Q}\$Reqi\$mw\$Mwleer\$Qilxe

```
In [2]: #Question1
a =int(input(("Select 1: To Encrypt \nSelect 2: To Decrypt\n\n=>")))
Message=input("Enter Message: ")
Key=int(input("Enter Key: "))
output = ""
if a == 1:
    for i in range(len(Message)):
        output = output + (str(chr(ord(Message[i])+Key)))
if a == 2:
    for i in range(len(Message)):
        output = output + (str(chr(ord(Message[i])-Key)))
print(output)
```

Select 1: To Encrypt
Select 2: To Decrypt

=>2
Enter Message: Q}\$Reqi\$mw\$Mwleer\$Qilxe
Enter Key: 4
My Name is Ishaan Mehta

```
In [3]: #Question2
import random
print("10 cryptographic nonce in the range [1, 10000]\n\n\n")
for i in range(0,10,1):
    print("Nonce" ,i+1," : ",random.randint(1, 10000))
```

10 cryptographic nonce in the range [1, 10000]

Nonce 1 : 5028
Nonce 2 : 9108
Nonce 3 : 7835
Nonce 4 : 9501
Nonce 5 : 4583
Nonce 6 : 2002
Nonce 7 : 9573
Nonce 8 : 1406
Nonce 9 : 5048
Nonce 10 : 9124

In []: