Subject name: Information society and lyber Laws

3) Vigenere Cipher:

def generatekey (string, key):

key = list (key)

If len (string) = = len (key):

octorn (key)

else:

for i in vange (den (string) -len (key)):

key. append (key [i % len (key)])

oceturn (" ". jain (key))

dej cipher Text (string, key):

cipher - tent = []

for i in vange (den (string)):

X = (ord (String [i]) + ord (Rey [i])) % 26

x+ = 08d ('A')

cipher - tent. append (cho (x))

vieturn ("". juin (cipher_ xent))

des original Tent (cipher - dent, key):

orig - sent = []

for i in varge (len (cipher _ lent));

X = (ord (cipher _ sent [i]) - ord (key [i]) + 26) % 26

x + = osd ('A')

orig - tent. append (cho (x))

Ysigh

Yetwon (" ". jain (orig - kent))

if -- name -- z = "-- main -- ":

String = " Coyptography"

Reywood = " Monarchy"

key = generate Key (String, keywood)

cipher - dent = cipher Text (String, key)

point (" cipher dent : ", cipher - dent)

Portnot (" Cipher dent : ", cipher - dent)

point (" Cipher dent : ", cipher - dent)

point (" Cipher dent : ", cipher - dent)

ysirgh

Name: Yogender Singh

ROUND: 1/21173

Subject Codo: PB(-60

Subject name: Information security and cyber Laws

4) B. OTP:

impart math, vandom

det generate OTP():

digits = "0123456789"

OTP = " "

for it in trange (4):

OTP += objects [math. floor (vandom. random () * 10)]

ocetwen OTP

if _name _ == " _ main _":

Point ("OTP is:", generate OTP())

Jeigh

Name: Yogender Singh Rau No: 1121173

Subject Code: PBC:601

Subject name: Information Security and Cyber laws

```
5) Caeser Cipher:
    def encoupt (text, s):
         result = " "
       too i in rouge (len (sent)):
           Chan = deset [i]
        if (chan. isuppor()):
          viesual += chr ((ord (char) + 5-65) % 26 +65)
       else:
          result += chr((ord(char) + 5 - 97)%26 + 97)
         return ocesult
       text = " Attack from North"
        5=4
        point "Text: " + tent
       point "Shift: "+ sto(s)
```

point "Cipher: " + encrypt (tent,s)

4507