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Name - Subham Singh

Course - BCA 6th B

Rollno - 58

university Rellno - 1121141

Subject - Information Security and cyber laws lab.
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Q4 Ons

```
import math, Handom

Off func OTP():

X = "0123456789"

OTP = " "

for & in Hange (16):

OTP = OTP + × [math floor (Handom Handom () × 10)]

Hutwon OTP

Y -- name -- == "-- main_-":

Phint (" OTP of 16 digit:", func OTP())

Output

OTP of 16 digits: 212 956 5775135770
```

Juddulyvan

```
03
         dy generaliky (String, Key):
          Key = list (. Key)
         · if len (string) = = len (Kuy):
             Ketwen ( Key)
            for i in trange (len (string) - lin (Kiy)):
               Key. append (Key [i % len (Key)])
          Letwer (". join (Key))
      alf encuption (Stung, Key):
        encupt-tod = []
        for i in Mange (lin (string)):
         X = ( oud(string [i]) + oud ( Kuy[i])) %. 26
          X = X + oud ('A')
          encrypt_turt.append (chr(x))
       Huber ("". Join (encupt-tuet))
    def ducuption (encupt tiel, key):
          Quignal: bet = []
        for i in mange (len(enempl-tere)).
         X = (ord (encrypt_tvet [i]) - ord (Ky[i]))7.26
          X = X + ord ('A')
```

Olignal_tect.append(chu(x))

Heteven("".john(ouignal_tect))

if-name_ == "_- main_-":

Super Juser

S = "Cuyptography"

Stuing = S. upper ()

Kuywoud = "Monarchy"

Kuy = generalikuy (Shing, Kuywoud)

encuypt - tuct = encuyption (Shing, Kuy)

Phint ("Encuypted tuct is:", enchypt - text)

Phint ("Ouiginal / Dechypted Text;", che my phion (encuypt-tuct, Kuy))

Supplement

```
St Sty
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```
dy encupt (String, shift):
    apper = "
    for that in string:
     if char = = 1 1:
     · Cipher = · Cipher + Char
    elif char . isupper ().
     Cipher = Cipher + chr ((ord (char) + Shift - 65)% 26+65)
    else:
     Cipher = Cipher + Chr ((ord (char) + Shift-97)%. 26+97)
 Hetwen eigher
 , test = "Attack from North"
  5=3
 Print ("Original String: ", text)
 Puint ("after encuption: ", encupt (text, S))
歌星 歌星.
 dif decrypt (String, shift):
  Plain ="
  for War in string:
  .4 Char == 11;
   · Plain = plain + char
  elif Char. isupper ():
     Plain = plain + chr ((ord (char) - Shift - 65) 1.26+65)
  else.
    Plain = plain + chrl( oud (char) - slift - 97)%. 26 + .97)
 Ketwan plain
                                                   Sulvey wood.
```

tock = encuypt (tack, s) s = 3 Print ("after decuyption", decrypt (text, s))

Output -

Owginal String: Attack from North

after anchyption: Dwwdfn iunp QHUWK

after description: Betack from North.

Sulfa mais