INFORMATION SECURITY AND CYBER LAWS

NAME - SALONI MAGGO

COURSE - BCA 6 B

ROLL NO. - 39

UNIVERSITY - 1121120 ROLL NO.

Exam - Practical Exam (End Sem)

Emoil - soloninggo 200 10 gmail · com.

Folhere Name - Mr. Kuldup Kuman Maggo

laion

```
D3.
```

```
def generateky ( string, key):
  Key = list ( Key)
  if Les ( string) == Les (Key):
   seturn ( Key)
  else:
      for i in nonge ( Len C string) - ken ( Key )):
         Ky. append ( Ky [i./. Len ( Ky )])
      return ("" . join ( Key ))
def enoughion ( string, Key):
   enought_text = []
   for i in range ( les (string )):
      x = (ond ( string[i]) + and (Ky [i])). 1.26
      x = x + and ('A')
       enoughtext. append (chr(x))
      return (" " . join ( enought_text))
def decryption ( crorypt-text, Key):
    original text = []
    for i in nonge ( ho ( charypt text)):
      x = Cord ( enought text (i)) - ord ( Key (i))) 1.26
```

orignal-text - append (cho(x))

return ("" . join (orignal-text))

if __name_== "__main_":

S = " Cryptography"

String = S. uppen ()

Kyword = " Monarchy"

Ky = generatiky (string , Kyword)

encrypt_text = encryption (string , Ky)

print C" Enoughted text is: ", enoughtext)

print C" Orignal | Deorypted Text: ", deoryph'on Cenoryptetext,

Ky)).

Output -

Enoughted text is: OLRVOW TVMJAE

Original / Decrypted Text: CRYPTOGRAPHY.

& dom's

Q4.

```
import math, nondom

def func OTP ();

x = "0123456789"

OTP = ""

for i in nonge (16):

OTP = OTP + x [ math. floor ( nondom. nondom (1 * 10))]

seturn OTP

if -name - = = "-mai - ":

print (" OTP of 16 digits: ", func OTP (1)
```

OUTPUT

OTP of 16 digits: 5239577340121692

latori

def enought (string, shift): cipher = " for char in string: if char = = ! ': cipher = cipher + char elif char is upper (1: cipher = cipher + chr ((ord (char) + shift - 65) 1. 26 + 65) else: appear = cipter + chr ((and (chan) + shift - 97) 1.26+97) return cipter text = " Attack from North" 5=3 prist (" original string: ", text) after everyption: ", everypt (text, s)) print (" def deorypt (string, shift): plais = " for char in string: Salow

if char = = ' ': plain = plais + chan dif charicupper (): plain = plain + chr ((ord (char) - shift - 65) % 26 + 65) elic'. plais = plain + chr (Cord (chan) - shift - 97) 1.26 + 97) return plais text = encrypt (text, s) print (" after deoryphin: ", deorypt (text, s)) output -

original string: Attack from North

after veryption: Dwwdfn iwp Rowerk

Ofter deoryption: Attack from North.

John

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