NAME - HARSH BALVAN Course - BCA Uni Role NO - 1121056 Date - 15/06/2021 Subject - Information Security Question -3 # Vigenere Cipher def generateties (string, key): they = list (they) if len (string) = = len (key): teturn (rey) else: for i in range (len (string)) - len (trey): key. append (key [i % len (key]]) return ("" Join (reg)) # Enclyption def CipherText (String, key): Cipher_Text = [] for i in range (len (string)): x = (ord(string [i]) + ord(res [i]))%26 x+= ord('A')

```
Cipher_text. append (Chr(x))
  texum ("". doin (cipher-text))
# Function for decrepting
def originalText (cipher-Text, hey);
    onig - text = []
    for i in targe (len (cipher-Text)):
        x = ( ord ( cipher - text [i]) - ord ( key[i]) + 26)
                                             %26
        X+= ord ('A')
         orig-text. append (chr(x))
    Heturn ("". Join (orig - text))
# Driver Code
15-name_== "_main_":
    String = "C-ypt oftaphy"
    key word = " Monarchy"
   Key = generatethey (String, Keyword)
    Print (" CipherText:", Cipher_text)
    print ("Original (Decry pted Text: ", Original Text (
                                     Cipher + text / trey!)
```

NAME - HARSH BALYAN

Pate - 15/06/21

Course - BCA (6+h)

Subject-information Security

Section - A

Uni Roll No - 1121056

Roll NO - 51

Question - @ 4

import random as to

der otpgen ():

otp = " "

for i in range (4):

otp + = S++ (+. +andint (1,9))

print (" Your One Time Password is") we have the state of the state

Clear and without the property

print (otp)

Name - HARSH BALYAN

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ROLL NO-1121056

Subject - Insormation Security and Ober laws.

Question -5

I replementation of Enchaption and Dechaption using

Caesar Cipher

dus enctyption (plain-text, key);

entopted = " "

Son cin plain-text;

15 c. isuppor().

c-index = ord (c)-ord('A')

c-shifted = (c-index + tox) %26+000 ('A')

(- new = chr (c-shifted)

enerypted + = (-new

elif c. islower ():

(- index = ord(c) - ord('a')

C- shifted = (c-index'+ Key) % 26+ ord('a')

C-new = Chr (c-shifted)

enerapted + = c-new