```
Name: Shubham Jaisali
          BCA "B" 6th Sem
 Course:
 Rollmo. 57
 Subject Information Security and Cyber laws.
Ques3> Vignete Ciphen
       def generatikey (String, Key):
            Key = list (Key)

if len (string) == len (Key):
                 neturn (Key)
              forki in stonge (len(string) - len (key)):
                    Key.append (Key[i % len (Key)])
            Hetern (" " . join (key))
       def encuption (String, Key):
            encrypt_text = []
           for I in range (len(string)):
               x= (ord (string[i]) + ord (Key[i])) %26
               2= ord('A')
               encrypt_text.append (chr.(x))
           neturn (" foin (encrypt-text))
       def decryption (encrypt_text, Key):
            orig_text=[]
           tark i in ronge (len (encrypt_text)):
              x = (ond (encrypt_text[i] - ond (Key[i] +26) %26
               x+= ord ('A')
               orig-text-append (chn(2))
           neturn (m. join (onig_text)
```

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if ____name___ == "___main__":

String = " (ruphography"

Keyword = " Monarchy"

Key = generatekey (string, keyword)

encryptext = encryption (String, key)

print ("Gnorypted text: ", encryptext)

print ("Decrypted text: ", decryption (encrypt_lext, key))

Dublan

```
Name: Shubham Jaisali
Rollno. 57 (1121139)
Course BCA "B" 57 6th sem
Subject Information Security and Cyber Laws.
Quest) Program to Generate OTP
Import math, grandom
def generatiOTP()
        digits = "0123456789"
          OTP = 11 11
        for in songe (4):
                  OTP + = digits [maths.floor (200 ndom.
                                      nandom () * 10)
          neturn OTP
if __name__ = __ main__ " :
        print (" OTP of Adigits: ", generate OTPC))
```

Shippor

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Name: Shubham Jaisali
Course BCA 6th sem "B"
Rollmo. 57 (1121139)
Subject Information Security and Cyber laws.
Ques 5. Encryption and decryption using Caesar Capter
       def encupt (text, s);
              tor ( i in range (len (text)):
                     Char = text[i]
                     if (chau.isupperco):
                          91esult += chor ((ord (char) + 5-65) 1/26
                     else:
                         nesult+= chr ((ord (char)+5-97)%26
               netun nesult
       clef decrypt (text, s):
                 result = "
                 for 1 in Nonge ( len (text)):
                      char = text[i]
                      if (char. isubject()):
                            nescult = nesult + char ((ond (char)
                                         -s-65) % 26+65)
                    else {:
                       result += 2.chn (cond (char) - S-97)
                                               % 26 + 97)
                return result
```

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text = "Attack from the North"

S=3

print ("Text: " + text)

print ("Shift: " + str(s))

encrept-text = encrypt (text, s)

print ("*** * * * Encryption * * * * * * ")

print ("Plain fext: " + text)

print ("Ciphen text: " + encryptext)

print ("Cipher text: " + encryptext)

print ("Cipher text: " + encryptext)

print ("Cipher text: " + encryptext)

print ("Plain text: " + decrypt (encryptext, s))