Information Security and Cyberlaws.

Date.................

(PBC-601)

Name: Himanshu Singh Rawat (BCA Scetion 'c')

RollNO:- 1121064 (08)

Ans 4:-

```
import math, random
def generate OTP():

        digits = "0123456789"
        OTP = " "
        for i in range (4):
              OTP + = digits [math.floor(random.
             random()*10)]
       return OTP.
 if __ name __  = =  "__ main __":
        print("OTP of 4 digits:", generateOTP())
```

Ans3:-

```
def generate key ( String, key):
        Key = list ( Key)
        if len (String) == len(Key)
            return (Key)
    else:
        for i in range (len (String) - len(Key)):
            Key.append(Key[i % len(Key)])
    return (" "join (Key))
  def encryption (String, key):
        Cipher_text = []
        for i in range (len (String)):
            x = (ord [String[i] + ord (Key[i])) % 26
            x+ = ord ['A']
  Cipher = text.append (chr (x))
  return ("" . join (cipher_text))
  def decryption (Ciphertext, key):
        orgtext = [].
        for i in range [len (Cipher=text)):
        X = (ord [cipher_text[i]) - ord (Key(i])
                                + 26) % 26
        X+ = ord['A']
        org_text.append (chr [x]]
return ("join (org-text))

    if __name__ == "__main__":
            String = "Cryptography"
          Key = "Monarchy".
    Key = genratkey (String, Key).
```

Date..........................

```
ciphertext = encryption (string, Key)
  Print( "ciphertext:", ciphertext)
   Print ("original (Decrypted text:", decryption
   (ciphertext, key).
```

```
Ans5:- def encrypt (string):
          cipher = ''
          for char in string:
              if char = = ' ':
                  cipher = cipher + char
              elif char.isupper():
                  cipher = cipher + chr((ord(char)+3-65)%
                                    26 +65)
              else
                  cipher = cipher + chr.((ord.(char)+3-97)%
                                    26+97)
          return cipher.
        tent = "Attack from North".
   # Decryption using Ceaser Cipher.
     def decrypt (string):
          plain = ''
          for char in string:
```