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Course- BCA B

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Subject - Info security & cyberlaw

Signature- Ishika

Q4 write a program to implement OTP (one time password)

```
import math, random
def funcotp():
    x = "0123456789"
    otp = ""
    for i in range(4):
        otp = otp + x[math.floor(random.
                    random() * 10)]
    return otp
if __name__ == "__main__":
print("OTP of 4 digit:", funcotp())
```

Q5 write a program to implement encryption and decryption using ceaser cipher on the input plain text = "Attack on North

```
print("Performing Encryption:")
def cencrypt(text, s):
    result = ""
    for i in range(len(text)):
        char = text[i]
        if (char.isupper()):
            result = result + chr((ord(char) +
                s-65) % 26 + 65)
        else:
            result = result + chr((ord(char) +
                s-97) % 26 + 97)
    return result
text = "@@ ATTACK ON NORTH"
s = 3
print("Plain text:", text)
print("Encrypted text:", encrypt(text, s))
```

```
print("Performing decryption:")
def decrypt(text, s):
    result = ""
    for i in range(len(text)):
        char = text[i]
        if (char.isupper()):
            result = result + chr((ord(char)-
                s-65) % 26 + 65)
        else
            result = result + chr((ord(char)-
                s-97) % 26+97)
    return result
text = encrypt(text, s)
s = 3
print("Decrypted text:", decrypt(
                text, s))
```

output

Performing Encryption
Plain text: Attack from North
Encrypted text: Dwwdfnirpqrwk
Performing Decryption
Decrypted text: Attackfromnorth

Q1 Find any 3 security aspects of google account

① change your google account password

few things to remember before changing password

Password should be unique

Password should have special characters

step 1 - log in to your google account

step 2 - click on security option

step 3 - Now, click on password

step 4 - First, you have to enter your current password for verification.

step 5 - Now, Rest your current password and then re-enter it.

step 6 - click on change password

step 7 - Password changed successfully.

② See control and delete the info in your Google Account

Step 1 - login your google account

step2 - Go to google dashboard

Step 3 - Now, you can see some popular services like Gmail, Activity data like device information, location history & so on.

step4 - You have also more ways to control your data like security checkup, my activity and so on

step5 - Now, make some changes to your google service

step6 - changes occured successfully.

③ check your Account Security

Step 1 - login to your google Account

Step 2 - Go to security option

Step 3 - you have following option under google security option:

* Signing in to google with the help of strong password and two step verification method.
* Adding phone number and email for recovery of account
* Can also check recently security events
* check devices where the account has currently signed in and in last 28 days with this option you can find your device also.
* check third party apps with account access.