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Subject :- Information security / cyber Security
Course :- BCA 6 B
Roll no :- 11311 02
Paper Type :- End Term Practical

Q4 WAP to implement OTP (one time password)

Objective :) To generate a OTP (8 digit) using math.ceil().

Source code

```
=) import math, random

def OTP():
    a = "0123456789"

    OTP = ""
    for i in range (8)
        OTP += a[math.ceil (random.random() * 10)]

    return OTP
if __name__ == "__main__":
    print ("OTP of 8 digit:" OTP())
```

Q5 =) WAP to implement encryption and decryption using caeser cipher on the input plain text =

"Attack from North"

*) Objective - To understand the encryption and
decryption using ceaser cipher'

encrypt

```
def encrypt (string):
    cipher = ""
```

```python
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
text = input("enter string:")
print("Original string:", text)
print(" after encryption:", encrypt(text))
```

Decrypt

```python
def decrypt(string):
    plain=""
    for char in string:
        if char == ' ':
            plain = plain + char
        elif char.isupper():
            plain = plain + chr((ord(char)-3-65)%26+65)
    else:
        plain = plain + chr((ord(char)-3-97)%26+97)
    return plain
text = input("enter cipher string:")
print("cipher string:", text)
print(" after decryption:", decrypt(text))
```

Q1 Find any 3 security aspects of the google account

Ans (1) check for account Recovery

STEP 1: log-to your Google accounts

STEP 2: Go to security option

STEP 3: click on Recovery phone and Recovery email one by one.

STEP 4: first you have to sign in again to your Google Account for verification.

STEP 5: Now you can Recover your account by adding Phone Number and Email one by one.

STEP 6:- By adding this, you can Recover your account easily

STEP 7:- Account Recover successfully.

(2) check for account security

STEP 1:- log-to your Google Account.

STEP 2:- Go to security option

STEP 3:- you have following options under Google Security option

1. 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.

③ **Check out for google safety tips**

Step 1: log to your google account.

Step 2: go to Help option where you find tips related to your google account.

Step 3: following are the options comes under in help.

1 Help with common issue like control and Recover of data.

Guiding steps for adding privacy, account protection and finding your device.

Discuss your problems related to your google account with other people who use the same service a you

you can report your issues and get solution for that.

you can also give feedback to your google service.

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