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Course : BCA

Semester : 6th

University Roll no : 1121014

Subject : Information Security Practical

Subject Code : BCC :01

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Amisha Rawat

Name : Amisha Rawat Course : BCA Sem : 6th
University Roll no. : 1121014 Subject : Information Security Practical
Subject Code : PBC 601

MCQs

1. a) Symmetric key encryption with receiver public key

2. c) Spyware

3) c) An authentication of an electric record

4) d) None

5) a) only on alphanumeric

6) c) All

7) a) hash value

8) d) option a & c are right.

9) b) to make even no. of letters

10) d) None

Amisha Rawat

1.

a) Create a Google Account to access to many Google products.

Step 1: Go to official site of Google account for sign in.
Step 2: Click on create account & create your google account by filling the requested details.
Step 3: Create Password for your account.
Step 4: Account created successfully.

b) Change your Google Account Password.

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, enter new password & then re-enter it.
Step 6: Click on Change Password.
Step 7: Password Changed Successfully.

Anshul Rawat

c) Control what others see about you across Google Services

Step 1: Log in to your Google Account.

Step 2: Click on Personal Info Option

Step 3: Now, Click on About me

Step 4: You have many options to change, like, your DOB, gender, etc,,.

Step 5: Apply privacy on your personal details.

Step 6: Privacy Applied Successfully.

d) See Control and delete the info in your Google Account

Step 1: Log into your Google Account

Step 2: Go to Google Dashboard.

Step 3: Now, You can see popular services like Gmail, Activity Data like Device Information, Location History & so on.

Step 4: You have also more ways to control your data like Security Check up, My Activity & so on.

Step 5: Now, make some changes to your Google Services

Step 6: Changes Occurred Successfully.

Amishal Rawat

4.

```
import math, random

def generateOTP():

    digits = "223425078"
    OTP = ""

    for i in range (4):
        OTP += digits[math.floor(random.random() * 10)]

    return OTP

if __name__ == "__main__":
    print("OTP of 4 digits :", generateOTP())
```

Anisha Rawat

5. Encryption using Caesar Cipher

```
shift = 3
text = "ATTACK FROM NORTH"
encryption = ""
for c in text :
    if c.isupper():
        c_unicode = ord(c)
        c_index = ord(c) - ord("A")
        new_index = (c_index + shift) % 26
        new_unicode = new_index + ord("A")
        new_character = chr(new_unicode)
        encryption = encryption + new_character
    else :
        encryption += c
print("Plain text :", text)
print("Encrypted text :", encryption)
```

Output :

Plain text : ATTACK FROM NORTH

Encrypted text : DWWDFN IURP QRUWK

Anushka Rawat

Decryption Caesar Cipher

5.

```
shift = 3
encrypted_text = DWWDFN IURP QRUWK
plain_text = ""
    for d in encrypted_text:
        if d.isupper():
            d_unicode = ord(d)
            d_index = ord(d) - ord("A")
            new_index = (d_index - shift) % 26
            new_unicode = new_index + ord("A")
            new_character = chr(new_unicode)
            plain_text = plain_text + new_character
    else:
        plain_text += d
print("Encrypted text :", encrypted_text)
print("Decrypted text :", plain_text)
```

Output :

Encrypted text : DWWDFN IURP QRUWK

Decrypted text : ATTACK FROM NORTH

Amishi Rawat