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Course : BCA (VI) - Sec B

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Subject : Information Security & Cyber Laws
(TBC-604)

Q.1) Find any 3 security aspects of the Google account

Basically, Google account is the key to accessing all of Google product and services, many of which are free. Signing up for a Google account is a quick process, but we need to give our personal information.

a) Create a Google Account to access many Google products

Step-1) Go to the official site of Google account for signing.

Step-2) Click on create account and create your Google account by filling necessary details.

Step-3) Create password for your account.

Step-4) Account create successfully.

My email id is khetaopal.muskaan17@gmail.com

b) 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, In this option click on go to About me

* Step-4) You have many options to change like your D.O.B, Gender and many more.

Step-5) Apply privacy on your personal details.

Step-6) Privacy Applied successfully.

c) Google Privacy Policy (Check once)

Step-1) Log in to your Google Account.

Step-2) Go to Google Privacy Policies and check the policies associated with it.

Step-3) Google Privacy policies are

- ① Privacy Reminder from Google
- ② Change your Privacy Settings
- ③ Download your data
- ④ Make your account more secure.

Q.4)

OTP (Write a program to implement OTP)

```
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 digits:", funcOTP())
```

This program will generate a 4 digit OTP.

Q.5) Write a program to implement encryption and decryption using Caesar Cipher on the input plain

text = "Attack from North".

```
def encrypt (text, s):
```

```
    result = ""
```

```
    for i in range(len(text)):
```

```
        char = text[i]
```

```
        if (char.isupper()):
```

```
            result += chr((ord(char) + s - 65) % 26 + 65)
```

```
        else:
```

```
            result += chr((ord(char) + s - 97) % 26 + 97)
```

```
    return result
```

```
text = "Attack from North"
```

```
s = 3
```

```
print("text:" + text)
```

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

```
print("Cipher:" + encrypt(text, s))
```



```
def decrypt(text, s):
```

```
    result = ""
```

```
    for i in range(len(text)):
```

```
        char = text[i]
```

```
        if (char.isupper()):
```

```
            result += chr((ord(char) - s - 65) % 26 + 65)
```

```
        else:
```

```
            result += chr((ord(char) - s - 97) % 26 + 97)
```

```
    return result
```

```
text = "Attack from North"
```

```
s = 3
```

```
print("Cipher:" + decrypt(text, s))
```

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

```
print("Text: #" + text)
```