

END TERM PRACTICAL

Name:- Gabbar Singh

Course:- B.C.A.

Section:- A , Sem:- VI

Uni. Roll No:- 1121048

Ans 1

<i> Do a security checkup :-

Go to security checkup to get personalized security recommendations for your google account including :-

- Turn on 2 step verification
- Turn on screen locks
- Update account recovery options.

<ii> Update your software :-

If your browser, operating system, or apps are outdated the software might won't be safe from hackers.

- Update your browser, operating system & apps.

<iii> Use unique strong passwords :-

Its risky to use same password on multiple sites. If password is hacked the unauthorised access will take place for all accounts related to the password.

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- Manage your password.
- Use combinations of numbers, characters etc. to create password.

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Ans 4 \Rightarrow

```
import math, random
```

```
def generateOTP():
```

`digits = "0123456789"`

OTP = " "

```
for i in range(4):
```

GTP =

OTP + = digits [math.floor(random.
random() * 10)]

return OTP

if --name-- == "main":

```
print("OTP of 4 digits : ", generateOTP())
```

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Ans 5

```
def encrypt_decrypt(text, s):  
    result = ""  
    for i in range(len(text)):  
        char = text[i]  
        if(char.isupper()):  
            result += chr((ord(char) + s - 65) %  
                           26 + 65)  
        elif(char == chr(32)):  
            result = result + chr(32)  
        else:  
            result += chr((ord(char) + s - 97) % 26  
                           + 97)  
    return result
```

$s = 3$

```
text = "Attack from North"  
print("Message =", text)  
print("Encrypted text", encrypt_decrypt(  
    text, s))  
print("Decrypted text", encrypt_decrypt(  
    encrypt_decrypt(text, s), 26 - s))
```

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