

Name \Rightarrow Sunil Kainthra

Rollno \Rightarrow 33 (1121148)

Sub \Rightarrow Information Security

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Sec \Rightarrow C

Course \Rightarrow BCA

Sem \Rightarrow 6th

Q. MCQ :-

Q1. PGP uses -

Ans. Asymmetric key encryption with sender public key.

Q2. Keyloggers are a form of -

Ans. (C) Spyware.

Q3. A digital signature is -

Ans. An authentication of an electric record

Q4. "NETIQUETTES" deals with -

Ans. cyber laws.

Q5. Encryption can be done -

Ans. Only on alphanumeric. (a)

Q6. _____ does not come under the copyright.

Ans. Idea is some little is different.

Q7. MD5 is a - ?

Ans. Hash values.

Q8. Is Affine cipher -

Ans. The identity of character is changed while its position

Q9. The season behind appearing 'x' in
playfair cipher is -

A9. both B and C.

Q10. Module is taken as 26 --- because of -

A10. Possibility of replacements.

Q1. Find any 3 security aspects of the google account.

Ans. A google account is one basic accessing all the google service products and applications. Many of them are free to use. By giving our personal details we have created a google account to sign in easily anywhere.

- go to official website of google
- click on create account & put necessary details.
- Create password.

Your account is created successfully.

* Security Aspects:

① Control contact others see about google services.

○ Step 1: Log in to your account.

○ Step 2: Go to personal info option.

○ Step 3: Click on about me.

○ Step 4: You have many option to change

like your Date of birth, gender etc.

⑤ Step 5: Apply privacy to your personal details.

Step 6: Privacy Applied successfully.

② See control and delete the info in your google account.

① Step 1: Log in to your account.

② Step 2: Go to dashboard.

③ Step 3: Now, you can see same popular services like Gmail, Activity data like location history etc.

④ Step 4: You have also same popular services like Gmail, Activity data like location history etc.

⑤ Step 5: Now, make some changes to your google services.

⑥ Step 6: Changes done successfully.

③ Check for Account Recovery:

Step 1: Log in to your google account.

Step 2: Go to security option.

Step 3: Click on Recovery phone & mail one by one

Step 4: First you have to sign in again to your google account for verification.

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Rollno \Rightarrow 33 (1121148)

- ① Step 3: Now you can recover your account by adding phone number and Email.
 - ② Step 6: By adding this, you can recover your account easily.
 - ③ Step 7: Account recovered successfully.
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NAME ↗ Sumeet Kaintura
Rollno ↗ 33 (1121148)

Q9. Write a Program to implement OTP.

Aw.
= Python

4 digit Numeric OTP

#import library

import math, random

Function to generate OTP

def generateOTP():

Declaring a digits variable

which stores all ~~digit~~ digits

digits = "0 1 2 3 4 5 6 7 8 9"

OTP = ""

"Length Of Password can be changed"

"By changing value of size"

for i in range = (4):

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

return OTP

Driver code

if __name__ == "__main__":

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Print ("OTP of 4 Digits:") generate OTP(1)

① Output

OTP of 4 Digit : 3211

Q5. Write a program for the encryption and decryption using Caesar cipher.

Ans. ① Encryption using Caesar cipher:

⇒ Def encrypt (String):

Cipher = ""

for char in String:

if char == " ":

Cipher = Cipher + Char

elif Char . isupper ():

Cipher = Cipher + Char ((ord (Char) + 3 - 65)
74 · 26 + 65)

else:

Cipher = Cipher + Char ((ord (Char) + 3 - 97)
74 · 26 + 97)

return Cipher

text = "Attack from North"

print ("After Encryption : ", encrypt (text))

② Decryption using Caesar cipher.

def decrypt (String):

plain = ""

for char in String:

if Char == " ":

Plain = Plain + Char

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UNIVERSITY ROLL NO → 1121148

if char . is upper ():

Plain = Plain + Chr (Ord (Char) - 3 - 65)
• 1 - 36 + 65)

Else :

Plain = Plain + Chr (Ord (Char) - 3 - 97)
• 1 - 26 + 97)

return plain

← text = " "

← Print (" after decryption : ", decrypt (text))
