

Name - Juhi Sharma,

Course - BCA Sec - 'C'

Roll No - 1121068

Info Security Practical (PBC-601).

MCQ

- 1) Asymmetric key encryption with sender public key.
- 2) Spyware.
- 3) An authentication of an electronic record.
- 4) Cyber Security.
- 5) Only on ASCII coded data
- 6) All
- 7) hash value
- 8) The identity of the character is changed while its position remains unchanged.
- 9) to make even no. of letters.
- 10) Total length of word.

Juhi

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Qr. Soln.: Three security aspects of the google account

Step 1: Go to security checkup to get personalized security recommendations for your google account including: ~~add~~

1. Add or Update Account Recovery options:

Your recovery phone number & email address are powerful security tools. This contact info can be used to help:

* Block someone from using your account within your permission.

Step 2: Update your software if your browser, operating system, or apps are out of date. the software might not be safe from hackers.



- Update your browser make sure you are using the latest version of your browser.

- Update Android devices.

- Update Chrome books.

3. Use unique strong password. It's risky to use the same password on multiple sites.

- Make sure to create a strong unique password for each account.

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Q4

```
#include <stdio.h>
```

```
#include <ctype.h>
```

```
#include <string.h>
```

```
int main() {
```

```
{
```

```
char plaintext[100], otp[100];
```

```
printf("Enter plain text\n");
```

```
fflush(stdin);
```

```
fgets(plaintext, sizeof(plaintext), stdin);
```

```
printf("Enter otp txt of length %d\n", strlen(plaintext));
```

```
fflush(stdin);
```

```
fgets(otp, sizeof(otp), stdin);
```

```
for (int i = 0; i < strlen(plaintext); i++)
```

```
{
```

```
if (isupper(plaintext[i]))
```

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```

{
    otp[i] = toupper(otp[i]);
    if (plaintext[i] + otp[i] - 'A' > 'Z') {plaintext[i] =
    plaintext[i] + (otp[i] - 'A') - 26; }
    if (plaintext[i] + (otp[i] - 'A') < 'Z')
    {
        plaintext[i] = plaintext[i] + otp[i] - 'A';
    }
}

```

```

else if (islower(plaintext[i]))
{
    otp[i] = tolower(otp[i]);
    if (plaintext[i] + (otp[i] - 'a') > 'z')
    {
        plaintext[i] + (otp[i] - 'a') > 26;
    }
    if (plaintext[i] + otp[i] - 'a' < 'z')
    {
        plaintext[i] = plaintext[i] + (otp[i] - 'a'); }
    }
    else {plaintext[i] = plaintext[i]; }
    printf("Cipher text \t %s\n", plaintext);
    return 0;
}

```

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— * — * —

```
#include <stdio.h>
#include <string.h>
int main()
```

```
{
    char message = "ATTACK FROM NORTH", *ch;
    char int i, key;
    printf ("Enter key : ");
    scanf ("%d", &key);
    for (i = 0; message[i] != '\0'; i++)
    {
        ch = message[i];
        if (ch >= 'a' && ch <= 'z')
        {
            ch = ch + key;
            if (ch > 'z')
            {
                ch = ch - 'z' + 'a' - 1;
            }
            message[i] = ch;
        }
    }
}
```

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— a — a —

```
else if (ch >= 'A' && ch <= 'Z')
```

```
{
```

```
    ch = ch + key;
```

```
    if (ch > 'Z')
```

```
{
```

```
    ch = ch - 'Z' + 'A' - 1;
```

```
}
```

```
    message[i] = ch;
```

```
}
```

```
}
```

```
printf("encrypted message is %s\n", message);
```

```
for (i = 0; message[i] != '\0'; i++)
```

```
{
```

```
    ch = message[i];
```

```
    if (ch >= 'a' && ch <= 'z')
```

```
{
```

```
        ch = ch - key;
```

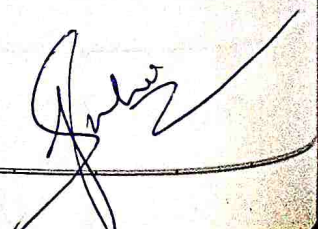
```
        if (ch < 'a')
```

```
{
```

```
            ch = ch + 'z' - 'a' + 1;
```

```
}
```

```
        message[i] = ch;
```



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```
} else if (ch >= 'A' && ch <= 'Z').  
{  
    ch = ch - key;  
    if (ch < 'A')  
    {  
        ch = ch + 'Z' - 'A' + 1;  
    }  
    merged[i] = ch;  
}  
}  
  
printf ("decrypted message is %s", merged);  
return 0;  
}
```

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