

Name - Manav Singh Parmar
Course - B.Sc IT 6 sem

Roll No - 31 (1022741)
Subject - Info. Security & Cyber Law. Practical

①

Answer 1

Program to Implement One time Pad (OTP) Method

```
#include <stdio.h>
#include <string.h>
#include <ctype.h>
main()
{
    int i, j, len1, len2, numstr[100], numkey[100], numcipher[100];
    char str[100], key[100], cipher[100];
    printf("Enter string Text to encryption\n");
    gets(str);
    for (i = 0; j = 0; i < strlen(str); i++)
    {
        if (str[i] != ' ')
        {
            str[j] = toupper(str[i]);
            j++;
        }
    }
    str[j] = '\0';
    for (i = 0; i < strlen(str); i++)
    {
        numstr[i] = str[i] - 'A';
    }
    printf("Enter key string of random text\n");
    gets(key);
    for (i = 0; j = 0; i < strlen(key); i++)
    {
        if (key[i] != ' ')
        {
            key[j] = toupper(key[i]);
            j++;
        }
    }
    key[j] = '\0';
```

Manav

2

```
for (i = 0; i < strlen(key); i++)
{
    numkey[i] = key[i] - 'A';
}
for (i = 0; i < strlen(str); i++)
{
    numcipher[i] = numstr[i] + numkey[i];
    for (j = 0; j < strlen(str); j++)
    {
        if (numcipher[i] > 25)
        {
            numcipher[i] = numcipher[i] - 26;
        }
        printf("One Time Pad Cipher text is \n");
        for (k = 0; k < strlen(str); k++)
        {
            printf("%c", (numcipher[i] + 'A'));
        }
        printf("\n");
    }
}
```

Manav

Users\hp\Documents\onetimepad.cpp - [Executing] - Dev-C++ 5.11

Edit Search View Project Execute Tools AStyle Window Help

C:\Users\hp\Documents\onetimepad.exe

Class

Enter a string text to encrypt
one time pad

Enter key string of random text
perfect

One Time Pad Cipher text is
DRVYMOXPD

Process exited after 12.02 seconds with return value 0
Press any key to continue . . .

mpiler

- Errors: 0
- Warnings: 0