Ex. No.: 1(a)   **CAESAR CIPHER**   **Reg. No.: 210701259**

Date:

AIM:

To implement encryption and decryption in Caesar Cipher technique.

ALGORITHM:

   1. Declare two arrays to store plaintext and ciphertext

   2. Prompt the user to enter plaintext

   3. Loop till the end-of line marker comes

     a. get one plaintext character & put the same in plaintext[] array and increment i

     b. apply caesar 3 key shift cipher on the character and store in ciphertext[] array and increment x.

   4. Print the ciphertext

PROGRAM CODE:

```
#include <stdio.h>
int main()
{
char plaintext[100]={0}, ciphertext[100]={0};
int c;
printf("Plaintext:");
while((c=getchar()) != '\n')
{
static int x=0, i=0;
plaintext[i++]=(char)c;
ciphertext[x++]=(char)(c+3);
}
printf("Cipher text:");
printf("%s\n",ciphertext);
return 0;
}
```

OUTPUT:

```
[root@localhost-live liveuser]# vi caesar.c
[root@localhost-live liveuser]# cc caesar.c
[root@localhost-live liveuser]# ./a.out
Plaintext:hello
Cipher text:khoor
[root@localhost-live liveuser]#
```

RESULT: