EXP NO :1 **DATE:**

CAESAR CIPHER

Aim: To implement encryption algorithm using Caesar Cipher technique.

Algorithm:

- Step 1: Prompt the user to enter a message to encrypt (text) and the encryption key (key).
- Step 2: Iterate through each character in text, applying the Caesar Cipher encryption.
- Step 3: Print the encrypted message.

Program:

```
#include <stdio.h>
int main()
{       char text[500];
int key;

   printf("Enter a message to encrypt: ");
scanf("%s", text);

   printf("Enter the key: ");
   scanf("%d", &key);

   for (int i = 0; text[i] != '\0'; ++i)
{       char ch = text[i];

       if ('a' <= ch && ch <= 'z')
ch = (ch - 'a' + key) % 26 + 'a';
else if ('A' <= ch && ch <= 'Z') ch
= (ch - 'A' + key) % 26 + 'A'; else
```

```
if ('0' <= ch && ch <= '9') ch =
(ch - '0' + key) % 10 + '0';

      text[i] = ch; } printf("Encrypted
   message: %s", text);

   return 0;
}
```

Output:

Result: