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:

```c
#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:

```
Enter a message to encrypt: vsgfdsghjdnjsdysftfyhdubgrtsbgdshij
Enter the key: 3
Encrypted message: yvjigvjkmgqmvgbviwibkgxejuwvejgvklm
```

Result: