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')
```

# **Output:**

```
/tmp/7vav8NOVWL.o
Enter a message to encrypt: saahithi
Enter the key: 22
Encrypted message: owwdepde
```

#### **Result:**