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' \leq ch && ch \leq 'Z')
ch = (ch - 'A' + key) \% 26 + 'A';
else if ('0' \le ch \&\& ch \le '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: