EX.NO: ROLL.NO: 210701273

DATE:

Implement the substitution technique Caesar Cipher

AIM:

To encrypt and decrypt a user-provided message using the Caesar Cipher technique with a specified shift value, ensuring confidentiality of communication.

ALGORITHM:

- 1. Start with the main function which prompts the user to enter the message and the shift value.
- 2. Read the message and shift value entered by the user.
- 3. Call the Caesar Cipher function passing the message and the shift value.
- 4. In the Caesar Cipher function:
 - Iterate through each character of the message.
 - Check if the character is an alphabet letter.
 - If it is, determine if it is uppercase or lowercase.
 - Apply the Caesar Cipher encryption algorithm by shifting the letter by the specified amount.
- 5. Print the encrypted message.

PROGRAM:

```
#include <stdio.h>
#include<ctype.h>
void caesarCipher(char message[], int shift);
int main() {
  char message[100];
  int shift:
  printf("Enter the message to encrypt: ");
  scanf("%s", message);
  printf("Enter the shift value: ");
  scanf("%d", &shift);
  caesarCipher(message, shift);
  printf("Encrypted message: %s\n", message);
  return 0;
void caesarCipher(char message[], int shift) {
  int i:
  for (i = 0; message[i] != '\0'; ++i) {
     char ch = message[i];
     if (isalpha(ch)) {
       if (isupper(ch)) {
```

```
Enter the message to encrypt: hello
Enter the shift value: 3
Encrypted message: khoor

...Program finished with exit code 0
Press ENTER to exit console.
```

RESULT:

OUTPUT: