EXP NO :1 **DATE: 27/01/24**

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')
```

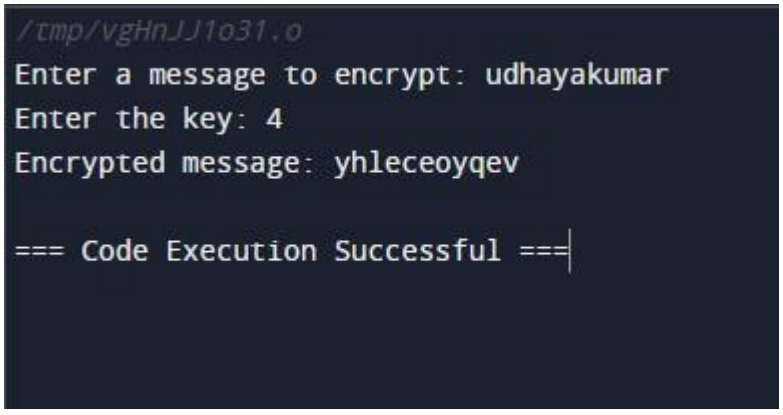
```
 ch = (ch - '0' + key) % 10 + '0';
text[i] = ch;


 }

 printf("Encrypted message: %s", text);

 return 0;
}
```

Output:



Result:

Thus the encryption algorithm using Caesar Cipher technique is implemented successfully.