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') ch = (ch - 'A' + key) % 26
+ 'A'; else if ('0' <= ch && ch
```

<= '9') ch = (ch - '0' + key) %
10 + '0';

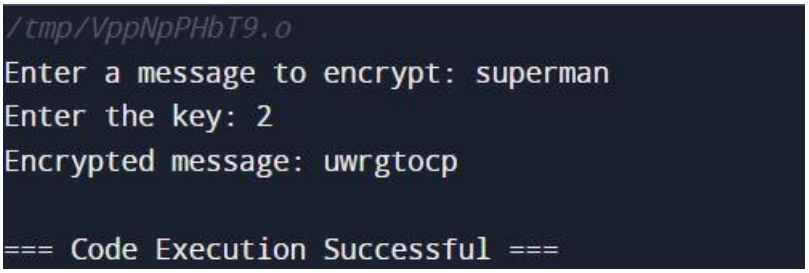
text[i] = ch; } printf("Encrypted

message: %s", text);

return 0;
}

Outp

ut:



Result: