EXPNO :1   **DATE:**

CAESARCIPHER

Aim: ToimplementencryptionalgorithmusingCaesarCiphertechnique.

Algorithm:

- Step1:Prompttheusertoenteramessagetoencrypt(text)andthe
  encryption key (key).
- Step2:Iteratethrougheachcharacterintext,applyingtheCaesarCipher
  encryption.
- Step3:Printtheencryptedmessage.

Program:
```c
#include<stdio.h>
int main()
{   chartext[500];
int key;

  printf("Enteramessagetoencrypt:");
scanf("%s", text);

  printf("Enterthekey:");
  scanf("%d", &key);

  for(int i=0;text[i]!='\0';++i)
{     charch=text[i];

    if ('a'<= ch && ch <= 'z')
ch = (ch - 'a' + key) % 26 + 'a';
elseif('A'<=ch&&ch<='Z')
```

```c
ch=(ch-'A'+key)%26+'A'; else if
('0'<= ch && ch <= '9')
        ch=(ch-'0'+key)%10+'0';

    text[i]=ch;
  }

  printf("Encryptedmessage:%s",text);

  return0;
}
```

Output:

```
Text : iam waiting
Shift : 4
Cipher: meqXaemxmrk

=== Code Execution Successful ===
```

Result: