

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;
}
```

Output:

```
/tmp/VppNpPHbT9.o
Enter a message to encrypt: superman
Enter the key: 2
Encrypted message: uwrgtocp
=== Code Execution Successful ===
```

Result:

