

**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/yc5tpSGnea.o
Original Message: This is Teju
Encrypted Message: T T hsi euisj

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

### Result: