

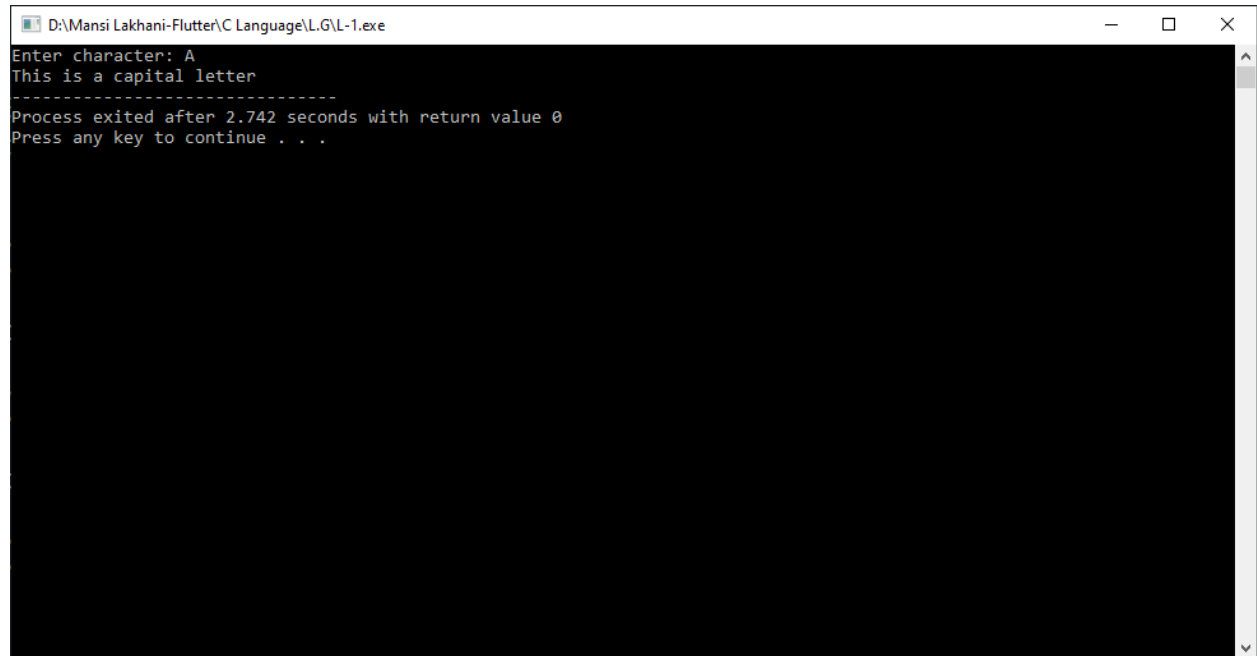
## **Practical-1**

**Aim:** Write a C program to input any character and check whether it is the alphabet, digit, or special character.

### **Program:**

```
#include<stdio.h>
#include<conio.h>
main()
{
    char ch;
    clrscr();
    printf("Enter character: ");
    scanf("%c",&ch);
    if(ch >= 'a' && ch <= 'z')
    {
        printf("This is a small letter");
    }
    else if(ch >= 'A' && ch <= 'Z')
    {
        printf("This is a capital letter");
    }
    else if(ch >= '0' && ch <= '9')
    {
        printf("This is a digit");
    }
    else
    {
        printf("This is a special character");
    }
    getch();
}
```

## Output:



A screenshot of a Windows command prompt window. The title bar at the top reads "D:\Mansi Lakhani-Flutter\C Language\L.G\L-1.exe" and includes standard minimize, maximize, and close buttons. The command prompt area has a black background with white text. The text displayed is: "Enter character: A", "This is a capital letter", a line of dashes "-----", "Process exited after 2.742 seconds with return value 0", and "Press any key to continue . . .". A vertical scrollbar is visible on the right side of the window.

```
D:\Mansi Lakhani-Flutter\C Language\L.G\L-1.exe
Enter character: A
This is a capital letter
-----
Process exited after 2.742 seconds with return value 0
Press any key to continue . . .
```

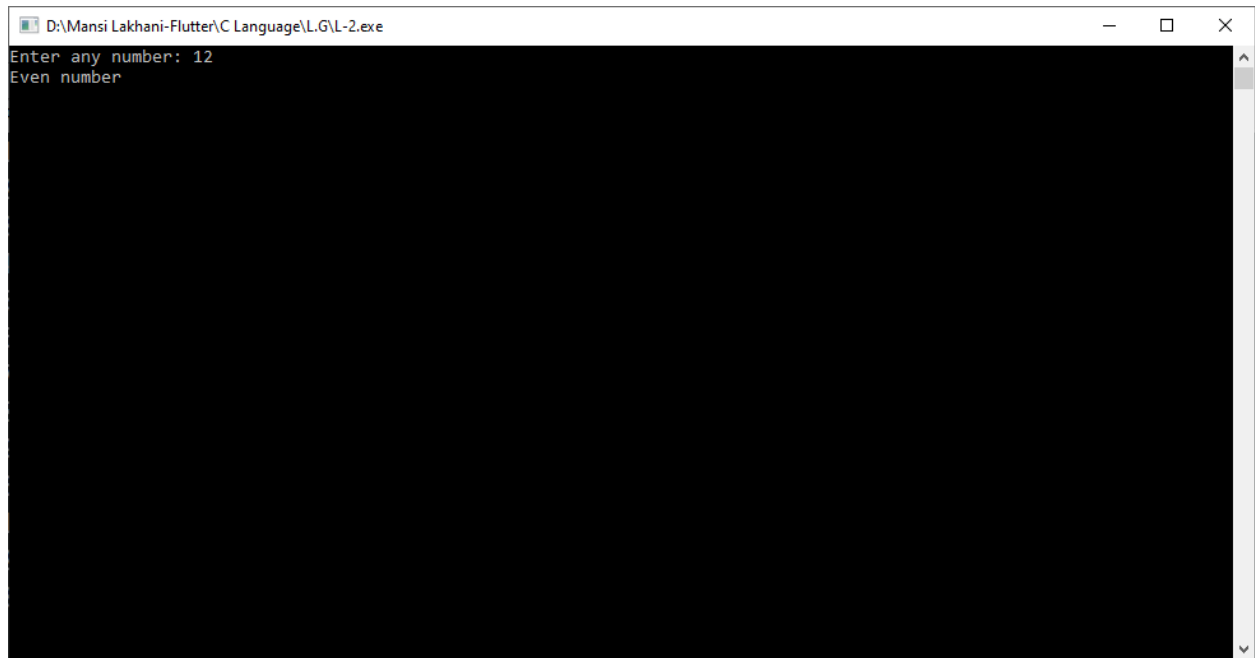
## **Practical-2**

**Aim:** Write a C program to check a number is even or odd using the ternary operator.

### **Program:**

```
#include<stdio.h>
#include<conio.h>
main()
{
    int num;
    clrscr();
    printf("Enter any number: ");
    scanf("%d",&num);
    (num%2==0)
        ?printf("Even number")
        :printf("Odd number");
    getch();
}
```

## Output:

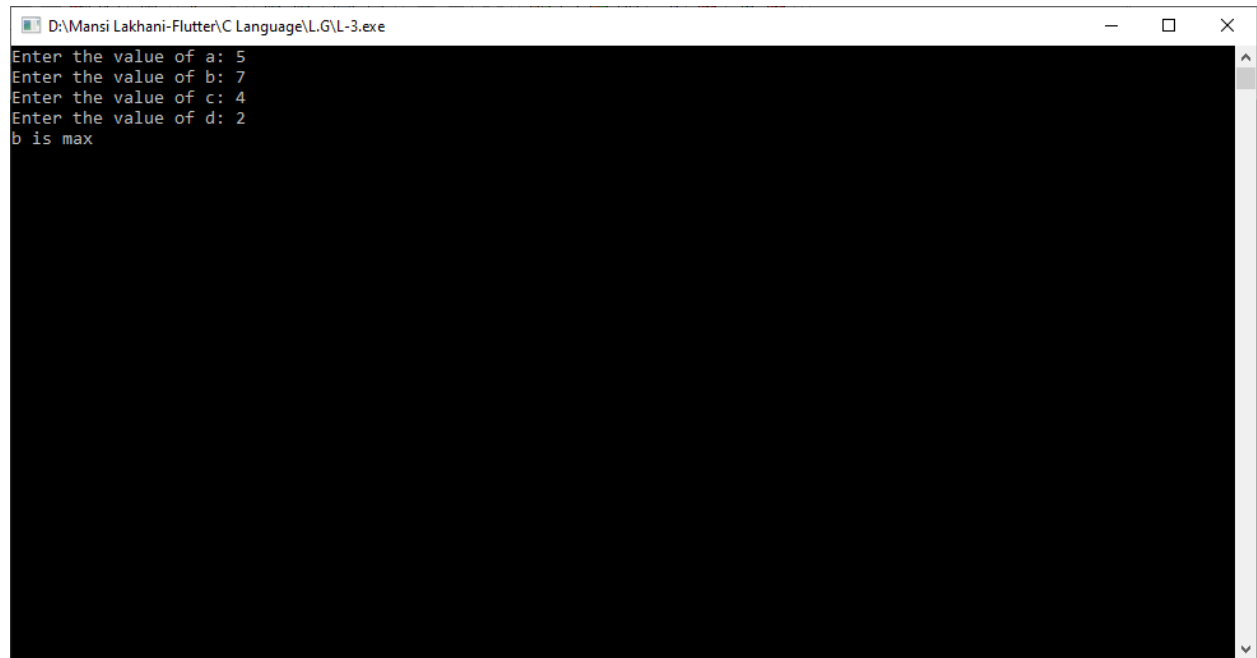


A screenshot of a Windows command prompt window. The title bar at the top reads "D:\Mansi Lakhani-Flutter\C Language\L.G\L-2.exe". The window contains two lines of text: "Enter any number: 12" and "Even number". The rest of the window is black, indicating that the program has finished execution and the prompt is not visible.

```
D:\Mansi Lakhani-Flutter\C Language\L.G\L-2.exe
Enter any number: 12
Even number
```



## Output:



A screenshot of a Windows command prompt window. The title bar at the top reads "D:\Mansi Lakhani-Flutter\C Language\L.G\L-3.exe" and includes standard minimize, maximize, and close buttons. The command prompt area has a black background with white text. The text displayed is: "Enter the value of a: 5", "Enter the value of b: 7", "Enter the value of c: 4", "Enter the value of d: 2", and "b is max". A vertical scrollbar is visible on the right side of the window.

```
D:\Mansi Lakhani-Flutter\C Language\L.G\L-3.exe
Enter the value of a: 5
Enter the value of b: 7
Enter the value of c: 4
Enter the value of d: 2
b is max
```

## **Practical-4**

**Aim:** Write C program use switch statement. Display months name. Also, provide proper validation layers.

**Ex. User Input: M**

**Output: March**

### **Program:**

```
#include<stdio.h>
#include<conio.h>
main()
{
    char month;
    clrscr();
    printf("Enter months: ");
    scanf("%c",&month);
    switch(month)
    {
        case 'j':
            printf("January");
            break;
        case 'f':
            printf("February");
            break;
        case 'm':
            printf("March");
            break;
        case 'a':
            printf("April");
            break;
        case 'y':
            printf("May");
            break;
        case 'p':
            printf("April");
            break;
        case 'l':
            printf("July");
```

```
        break;
    case 'u':
        printf("June");
        break;
    case 'g':
        printf("August");
        break;
    case 's':
        printf("September");
        break;
    case 'o':
        printf("October");
        break;
    case 'n':
        printf("November");
        break;
    case 'd':
        printf("December");
        break;
    default:
        printf("Wrong input");
    }
    getch();
}
```



## Output:



A screenshot of a Windows command prompt window. The title bar at the top reads "D:\Mansi Lakhani-Flutter\C Language\L.G\L-4.exe". The window contains the following text: "Enter months: j" followed by "January" on the next line. The rest of the window is black, indicating that the program has finished execution and the prompt is not visible.

```
D:\Mansi Lakhani-Flutter\C Language\L.G\L-4.exe
Enter months: j
January
```

## **Practical-5**

**Aim:** Write a C program to input electricity unit charges and calculate the total electricity bill according to the given condition:

**For the first 50 units Rs. 0.50/unit**

**For the next 100 units Rs. 0.75/unit**

**An additional surcharge of 20% is added to the bill.**

### **Program:**

```
#include<stdio.h>
#include<conio.h>
main()
{
    int unit;
    float t_amt,s_charge,amt;
    clrscr();
    printf("Enter total unit consumed: ");
    scanf("%d",&unit);
    if(unit<=50)
    {
        amt=unit*0.50;
    }
    else if(unit<=150)
    {
        amt=(50*0.50)+(unit-50)*0.75;
    }
    s_charge=amt*0.20;
    t_amt= amt+s_charge;
    printf("Electricity bill: %.2f",t_amt);
    getch();
}
```

## Output:



A screenshot of a Windows command prompt window. The title bar at the top reads "D:\Mansi Lakhani-Flutter\C Language\L.G\L-05.exe". The window contains two lines of text: "Enter total unit consumed: 120" and "Electricity bill: 93.00". A "Window Snip" watermark is visible in the lower right area of the window. The background of the command prompt is black, and the text is white.

```
D:\Mansi Lakhani-Flutter\C Language\L.G\L-05.exe
Enter total unit consumed: 120
Electricity bill: 93.00
```