

### **Program 1:**

//Program to check if number is divisible by 5 or not.

```
#include<stdio.h>
int main(){
    printf("Enter a number: ");
    int num;
    scanf("%d",&num);
    if(num%5==0)
        printf("\n%d is divisible by 5\n",num);
    else
        printf("\n%d is not divisible by 5\n",num);
}
```

```
vipul@whiplash:~/Codes/Practicals$ ./divisible_by5_output
Enter a number: 55

55 is divisible by 5
vipul@whiplash:~/Codes/Practicals$ ./divisible_by5_output
Enter a number: 11

11 is not divisible by 5
```

## Program 2:

```
//Program to check if number is >0 || <0 || ==0.
```

```
#include<stdio.h>
int main(){
    int num;
    printf("Enter number: ");
    scanf("%d",&num);
    if(num>0)
        printf("\n%d is >0\n",num);
    else if(num<0)
        printf("\n%d is <0\n",num);
    else
        printf("\n%d is =0\n",num);

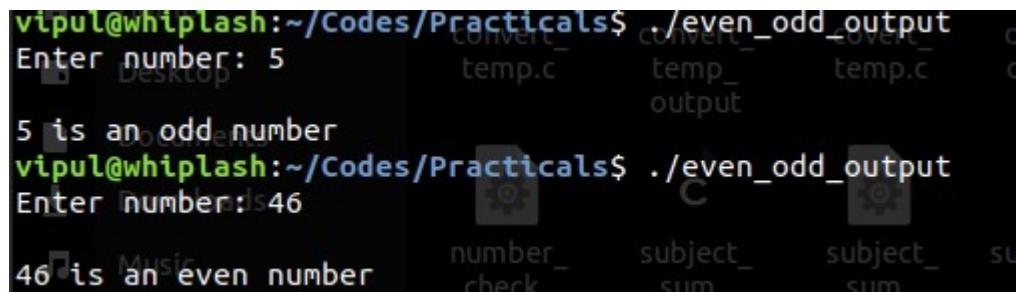
}
```

```
vipul@whiplash:~/Codes/Practicals$ ./number_check_output
Enter number: 49
49 is >0
vipul@whiplash:~/Codes/Practicals$ ./number_check_output
Enter number: -12
-12 is <0
vipul@whiplash:~/Codes/Practicals$ ./number_check_output
Enter number: 0
0 is =0
```

### **Program 3:**

//Program to check if number is even or odd.

```
#include<stdio.h>
int main(){
    int num;
    printf("Enter number: ");
    scanf("%d",&num);
    if(num%2==0)
        printf("\n%d is an even number\n",num);
    else
        printf("\n%d is an odd number\n",num);
}
```



The image shows a terminal window with two separate command-line sessions. In the first session, the user enters the number 5, and the program outputs "5 is an odd number". In the second session, the user enters the number 46, and the program outputs "46 is an even number". The terminal also displays several other files in the background, including "convert.c", "temp.c", "temp\_output", "number\_check.c", "subject\_sum", and "subject\_sum".

```
vipul@whiplash:~/Codes/Practicals$ ./even_odd_output
Enter number: 5
5 is an odd number
vipul@whiplash:~/Codes/Practicals$ ./even_odd_output
Enter number: 46
46 is an even number
```

#### **Program 4:**

//Program to check if year entered is leap year or not.

```
#include<stdio.h>
int main(){
    int year;
    printf("Enter year: ");
    scanf("%d",&year);
    if(year%4==0)
        printf("\n%d is a leap year.\n",year);
    else
        printf("\n%d is not a leap year.\n",year);
}
```

```
vipul@whiplash:~/Codes/Practicals$ ./leap_year_output
Enter year: 2022

2022 is not a leap year.
vipul@whiplash:~/Codes/Practicals$ ./leap_year_output
Enter year: 2016

2016 is a leap year.
```

### **Program 5:**

//Program to check greatest among three numbers.

```
#include<stdio.h>
int main(){
    int num[3];
    printf("Enter 3 numbers:\n");
    scanf("%d %d %d",&num[0],&num[1],&num[2]);
    if(num[0]>num[1] && num[0]>num[2])
        printf("\n%d is greater than %d and %d\n",num[0],num[1],num[2]);
    else if(num[1]>num[2] && num[1]>num[0])
        printf("\n%d is greater than %d and %d\n",num[1],num[2],num[0]);
    else
        printf("\n%d is greater than %d and %d\n",num[2],num[0],num[1]);
}
```

```
vipul@whiplash:~/Codes/Practicals$ ./greatest_3numbers_output
Enter 3 numbers:
10
20
30
+ Other Locations
30 is greater than 10 and 20
vipul@whiplash:~/Codes/Practicals$ ./greatest_3numbers_output
Enter 3 numbers:
45
5
10

45 is greater than 5 and 10
vipul@whiplash:~/Codes/Practicals$ ./greatest_3numbers_output
Enter 3 numbers:
54
456
1

456 is greater than 1 and 54
```

### Program 6:

//Program to relate two integers using = , < , >.

```
#include<stdio.h>
int main(){
    int num1,num2;
    printf("Enter 2 numbers:\n");
    scanf("%d %d",&num1,&num2);
    if(num1>num2)
        printf("\n%d>%d\n",num1,num2);
    else if(num1<num2)
        printf("\n%d<%d\n",num1,num2);
    else
        printf("\n%d=%d\n",num1,num2);

}
```

```
vipul@whiplash:~/Codes/Practicals$ ./relate_int_output
Enter 2 numbers:
10
20
10<20
vipul@whiplash:~/Codes/Practicals$ ./relate_int_output
Enter 2 numbers:
32
11
32>11
vipul@whiplash:~/Codes/Practicals$ ./relate_int_output
Enter 2 numbers:
5
5
5=5
```

