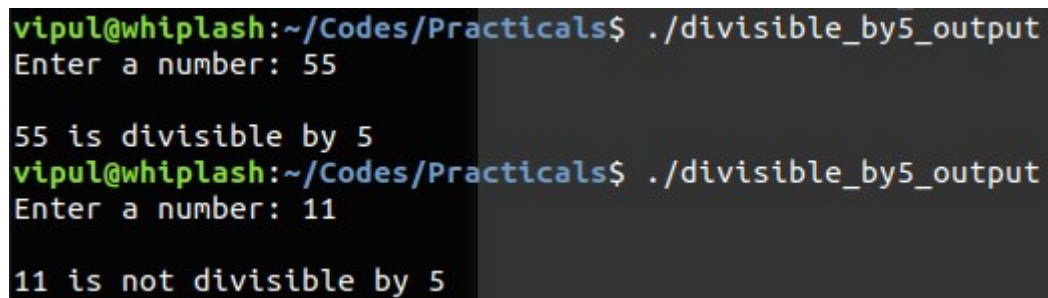


Program 1:

//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);
}
```

A terminal window with a dark background and light-colored text. The prompt is 'vipul@whiplash:~/Codes/Practicals\$'. The first command is './divisible_by5_output', followed by the input '55'. The output is '55 is divisible by 5'. The second command is also './divisible_by5_output', followed by the input '11'. The output is '11 is not divisible by 5'.

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

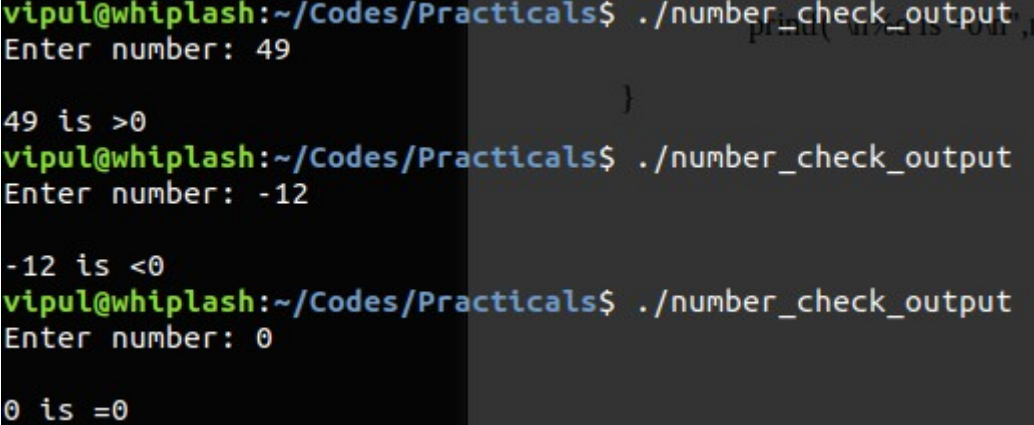
55 is divisible by 5
vipul@whiplash:~/Codes/Practicals$ ./divisible_by5_output
Enter a number: 11

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);
}
```

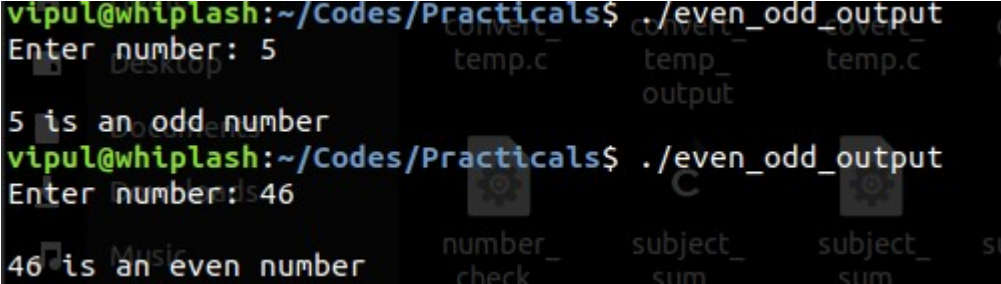


```
vipul@whiplash:~/Codes/Practicals$ ./number_check_output
Enter number: 49
49 is >0
vipul@whiplash:~/Codes/Practicals$ ./number_check_output
Enter number: -12
-12 is <0
vipul@whiplash:~/Codes/Practicals$ ./number_check_output
Enter number: 0
0 is =0
```

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);
}
```



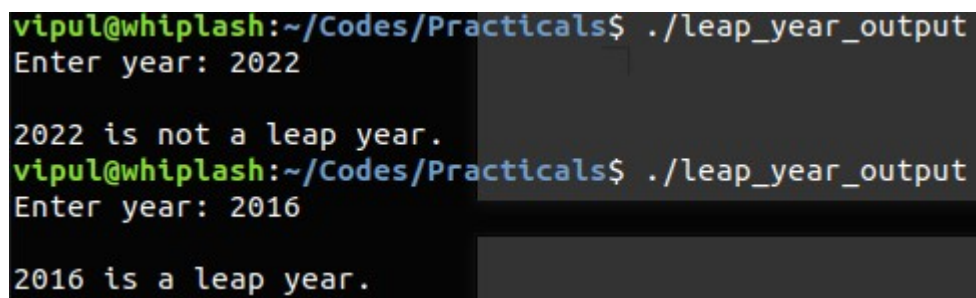
The screenshot shows a terminal window with a dark background. The prompt is `vipul@whiplash:~/Codes/Practicals$`. The user runs `./even_odd_output`. The program prompts "Enter number: 5" and outputs "5 is an odd number". The user then runs the program again, entering "46", and the output is "46 is an even number".

```
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);
}
```



The screenshot shows a terminal window with the following text:

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

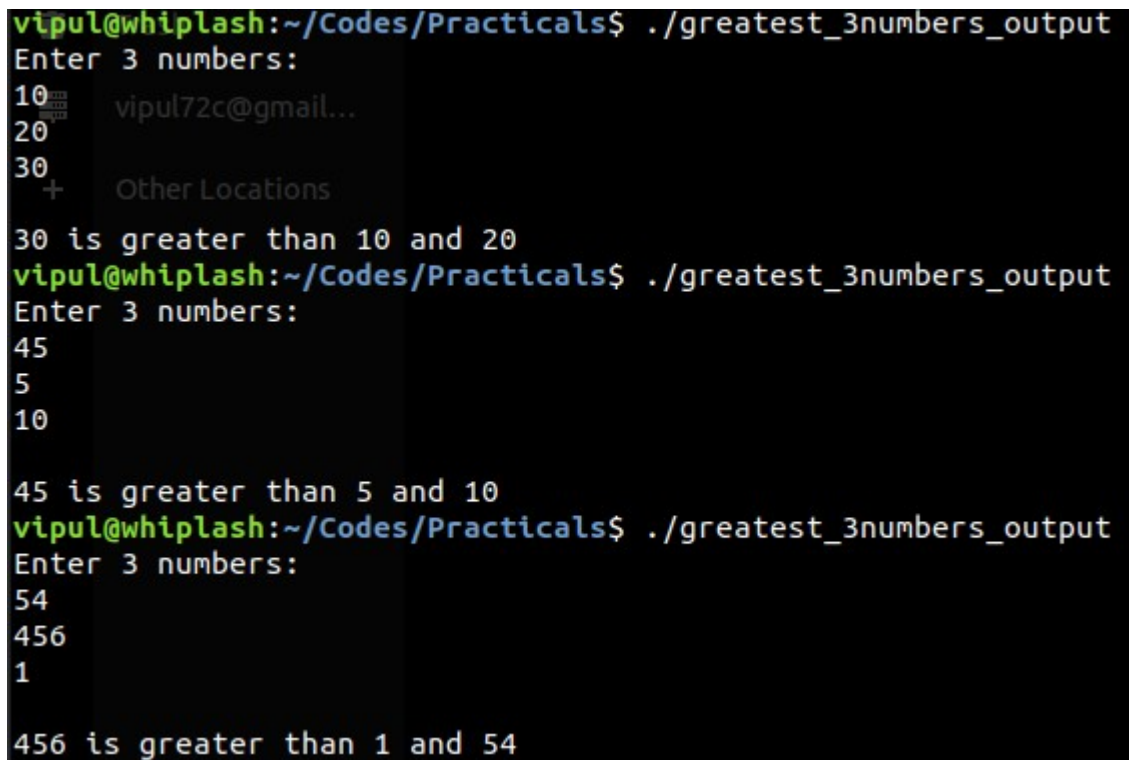
2022 is not a leap year.
vipul@whiplash:~/Codes/Practicals$ ./leap_year_output
Enter year: 2016

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]);
}
```

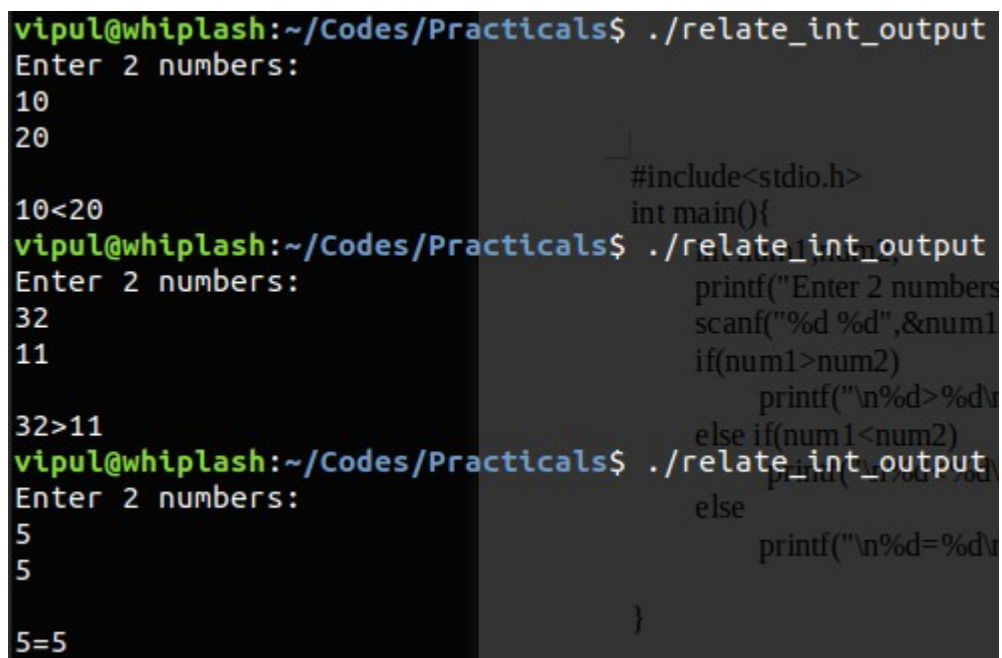


```
vipul@whiplash:~/Codes/Practicals$ ./greatest_3numbers_output
Enter 3 numbers:
10
20
30
30 is greater than 10 and 20
vipul@whiplash:~/Codes/Practicals$ ./greatest_3numbers_output
Enter 3 numbers:
45
5
10
45 is greater than 5 and 10
vipul@whiplash:~/Codes/Practicals$ ./greatest_3numbers_output
Enter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

```
#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);
}
```