Conditional Statements

Task-24th-july-2025   R. L. Phanindra Kumar

```python
1   #1)Check number positive or negative
2   n=int(input("Enter a number:"))
3   if n>0 and n!=0:
4       print("Positive number")
5   else:
6       if n==0:
7           print("Neither positive nor negative")
8       else:
9           print("Negative")
10
11  #2)Traffic Light checker
12  str1=input("Enter Traffic Light signal:").upper()
13  if str1=="RED":
14      print("Red - stop")
15  elif str1=="GREEN":
16      print("Green - go")
17  elif str1=="YELLOW":
18      print("Yellow - slow down and prepare to stop")
19  else:
20      print("Invalid")
21
```

Output
```
Enter a number:56
Positive number
Enter Traffic Light signal:red
Red - stop

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

```python
1   #3)Smallest Among 2 numbers
2   n1=int(input("Enter 1st number:"))
3   n2=int(input("Enter 2nd number:"))
4   if n1<n2 and n1!=n2:
5       print(f"{n1} is smaller than {n2}")
6   else:
7       if n1==n2:
8           print(f"smallest number is {n2}")
9       else:
10          print(f"{n2} is smaller than {n1}")
11
12  #4)Leap year or not
13  n=int(input("Enter year:"))
14  print("Leap year") if n % 400 == 0 or (n % 100 != 0 and n % 4 == 0)
        else print("Not a leap year")
15
16
17
```

Output
```
Enter 1st number:45
Enter 2nd number:56
45 is smaller than 56
Enter year:2004
Leap year

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