

Aim:

Write a python program for demonstrating the usage of comparison operators. The program should read two integers from the input. Then, perform each of the six comparison operations and print the result. Each line of output should contain the comparison operation followed by a boolean value (True or False), indicating whether the comparison holds true or not.

Input format:

The first 2 lines reads integers.

Output format:

The output line contains boolean values which represent the results of various comparisons operations ==, !=, <, <=, >, >= and the format should be like below:

{num1} (boolean condition) {num2} : boolean value respectively

Source Code:

operators.py

```
a=int(input())
b=int(input())
print(f"{a} == {b} :",bool(a==b))
print(f"{a} != {b} :",bool(a!=b))
print(f"{a} < {b} :",bool(a<b))
print(f"{a} <= {b} :",bool(a<=b))
print(f"{a} > {b} :",bool(a>b))
print(f"{a} >= {b} :",bool(a>=b))
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
4
4
4 == 4 : True
4 != 4 : False
4 < 4 : False
4 <= 4 : True
4 > 4 : False
4 >= 4 : True

Test Case - 2
User Output
3
2
3 == 2 : False
3 != 2 : True
3 < 2 : False
3 <= 2 : False

3 > 2 : True
3 >= 2 : True

Test Case - 3
User Output
5
5
5 == 5 : True
5 != 5 : False
5 < 5 : False
5 <= 5 : True
5 > 5 : False
5 >= 5 : True