S.No: 4	Exp. Name: ***Relational Operators***	Date:2025-11-15

Aim:

Write a C program that demonstrates the use of relational operators **(<, <=, >, >=, ==, !=).** Prompt the user to enter two integer values and then use relational operators to compare the numbers and print the results.

Input Format:

- The program prompts the user to enter two integers separated by spaces.

Output Format:

- The program prints "True" or "False" for various comparison operations between the two integers, with each result on a new line.

Note: Refer to the displayed test cases for better understanding of output format.

Source Code:

relationalOperators.c

```
 #include<stdio.h>
int main (){
   int a, b;
   printf("Enter two numbers: ");
   scanf("%d %d", &a,&b);
   printf("%d < %d: %s\n",a,b,(a<b)?"True": "False");
   printf("%d <= %d: %s\n", a , b,(a<=b)?"True":"False");
   printf("%d > %d: %s\n", a ,b,(a>b)?"True":"False");
   printf("%d >= %d: %s\n",a,b, (a>=b)?"True":"False");
   printf("%d == %d: %s\n",a,b,( a==b)?"True":"False");
   printf("%d != %d: %s\n",a,b, (a!=b)?"True":"False");
      return 0;
}
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

```
Enter two numbers:  5 10
5 < 10: True
5 <= 10: True
5 > 10: False
5 >= 10: False
5 == 10: False
5 != 10: True
```

Test Case - 2

User Output

```
Enter two numbers:  10 5
```


ID: 25070521045

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```
10 > 5: True
10 >= 5: True
10 == 5: False
10 != 5: True
```