S.No: 3	Exp. Name: ***Logical Operators***	Date:2025-08-29

Aim:

Write a C program that demonstrates the use of logical operators **(&&, ||, !)** with dynamic input.
Prompt the user to enter two integer values and then use logical operators to determine the following:

- If both numbers are positive or not.
- If at least one number is equal to 5 or not.
- If the first number is not greater than 10 or not.

Input Format:

- The input prompts the user to enter two integers $n1$ and $n2$, separated by a space.

Output format:

- The first line of output prints whether **Both are positive** or **Both are not positive**.
- The second line of output prints: "$\{n1\}\ or\ \{n2\}\ =\ 5$" or "$\{n1\},\ \{n2\}\ !=\ 5$".
- The third line of output prints: "$\{n1\} \leq 10$" or "$\{n1\} > 10$"

Note: Refer to sample test cases for better understanding.

Source Code:

logicalOperators.c

```
// Type your content here...
#include<stdio.h>
int main (){
   int n1, n2;

   printf("Enter numbers: ");
   scanf( "%d %d" , &n1, &n2);

   if (n1 > 0 && n2>0)
      printf("Both are positive\n");
   else
      printf("Both are not positive\n");
   if(n1== 5 || n2 ==5)
      printf("%d or %d = 5\n", n1, n2);
   else
      printf("%d,%d != 5\n", n1, n2);
   if (!(n1 > 10))
      printf("%d <= 10\n", n1);
   else
      printf("%d > 10\n", n1);
   return 0;
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output

ID: 25070521045

Both are positive
15,6 != 5
15 > 10

Test Case - 2
User Output
Enter numbers: 5 10
Both are positive
5 or 10 = 5
5 <= 10

Test Case - 3
User Output
Enter numbers: -5 -10
Both are not positive
-5,-10 != 5
-5 <= 10