Topic6(Comparison Operators)

C++ Comparison Operators

Comparison operators are used to compare two values (or variables). This is important in programming, because it helps us to find answers and make decisions.

The return value of a comparison is either of o, which means true(1) or false(0). These values are known as Boolean values, and you will learn more about them in the Booleans and If...Else Topic's.

In the following example, we use the **greater than** operator (>) to find out if 5 is greater than 3:

```
int x = 5;
int y = 3;
cout << (x > y); // returns 1 (true because 5 is greater than 3)
```

A list of all Comparison operators:

Operator	Name	Example
==	Equal to	x == y
!=	Not equal	x != y
>	Greater than	x > y
<	Less than	x < y
>=	Greater than or equal to	x >= y
<=	Less than or equal to	x <= y

```
#include<iostream>
#include<string>
using namespace std;
int main(int argc, char const *argv[])
    // Boolean variables
   bool TrueValue = true;  // True value(1)
bool FalseValue = false;  // False value (0)
    // Declaration of variables
    int x = 0, y = 2;
    cout << "Equal to : " << (x == y) << endl;
    cout << "Not equal : " << (x != y) << endl;
    // Greater than
    cout << "Greater than : " << (x > y) << endl;
    // Less than
    cout << "Less than : " << (x < y) << endl;
    cout << "Greater than or equal : " << (x >= y) << endl;
    // Less than or equal
    cout << "Less than or equal : " << (x <= y) << endl;</pre>
```

Topic6(Comparison Operators)