Comparison Operator

Comparison operators are operators used for comparing two elements, these are mostly used with if-else conditions as they return true-false as result.

There are mainly 6 Comparison Operators namely:

- 1. **Greater than (>):** this operator checks whether operand1 is greater than operand2. If the result turns out to be true, it returns true or else returns false. example 5>3 ->returns true
- 2. **Greater than or equal to (>=) :** this operator checks whether operand1 is greater than or equal to operand2. If the result turns out to be true, it returns true or else returns false. example 5>=5 ->returns true
- 3. **Less than (<) :** this operator checks whether operand1 is lesser than operand2. If the result turns out to be true, it returns true or else returns false. example 3<5 ->returns true
- 4. **Less than or equal to (< =) :** this operator checks whether operand1 is lesser than or equal to operand2. If the result turns out to be true, it returns true or else returns false. example 5<=5 ->returns true
- 5. **Equal to (==) :** this operator checks whether operand1 is equal to operand2. If the result turns out to be true, it returns true or else returns false. example 5==5 ->returns true
- 6. **Not Equal to (! =) :** this operator checks whether operand1 is not equal to operand2. If the result turns out to be true, it returns true or else returns false. example 5!=3 ->returns true

Comparison Operators have only two return values, either true (1) or False (0).

Example Code to cover all 6 Comparison Operators:

```
#include<iostream>
using namespace std;
int main()
{
   int x = 10, y = 20;
   cout << (x<y) << "\n"
        << (x>y) << "\n"
        << (x=y) << "\n"
        << (x>=y) << "\n"
        << (x>=y) << "\n"
        << (x<=y) << "\n"
        << (x<=y) << "\n"</pre>
```

Comparison Operator

```
<< (x!=y) << "\n";
return 0;
}
```

Output

Comparison Operator 2