

Relational and logical operator in java by Munawar

Relational Operator in java

Relational operator are used to evaluate conditions (true or false) inside the if statements some example of relational operators are:

`== , >= , > , < , <= , !=`

Note: `=` is used for assignment whereas `==` is used for equality check

The condition can be either true or false.

Logical Operator

`&& , || , !` Are most commonly used logical operators in java.

These are used as

`&&` ---> And

`||` --- > OR

`!` ---- > Not

Used to produce logic in java program.

And Operator

Evaluates to true if both the conditions are true.

`Y && Y = Y`

`Y && N =N`

`N && Y = N`

`N && N =N`

Y is Yes and N is No

Example

```
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {

        // and operator
        boolean a=true;
        boolean b=true;
        if (a&&b)
        {
            System.out.println("Y");
        }
        else {
            System.out.println("N");
        }
    }
}
```

OR Operator

Evaluates to true when at least one of the conditions is true.

Y || Y = Y

Y || N = Y

N || Y = Y

N || N = N

Y is Yes and N is No

Example

```
boolean d=false;
boolean e=false;
if (e||e)
{
    System.out.println("Y");
}
```

```
else {  
    System.out.println("N");  
}
```

Not Operator

Negates the given logic (true becomes false and false become true).

! Y = N

! N = Y

Y --- > yes N --- > No

Source Code

```
import java.util.Scanner;  
public class Main {  
    public static void main(String[] args) {  
  
        //      // and operator  
        //      boolean a=true;  
        //      boolean b=true;  
        //      if (a&&b)  
        //      {  
        //          System.out.println("Y");  
        //      }  
        //      else {  
        //          System.out.println("N");  
        //      }  
        // OR operator  
        //      boolean d=false;  
        //      boolean e=false;  
        //      if (e||e)  
        //      {  
        //          System.out.println("Y");  
        //      }  
        //      else {  
        //          System.out.println("N");  
        //      }  
  
        //Not operator  
        boolean f=false;  
        boolean t=true;  
        if(!t){  
            System.out.println("NO");  
        }  
    }  
}
```

```
    }  
    else {  
        System.out.println("Yes");  
    }  
}  
  
}
```

Thank You