Increment / Decrement

++ , --

SOUT(2++); ✗

↳ There needs to be a variable

Variable ⇒ Declaration, Initialization & Definition

```
int temp = 2;

SOUT(temp++);
SOUT(temp++);
```

↳ Post Increment

op: 2
3

```
SOUT(++temp);
SOUT(++temp);
SOUT(temp++);
```

↳ Pre Increment

op: 3
4
4

Geekster

How to take Input in Java

What's IP ?
Why IP ?
How IP ?

int
String

```
Scanner sc = new Scanner(System.in);

int xyz = sc.nextInt();
Boolean abc = sc.nextBoolean();
Long var = sc.nextLong();
char ch = sc.next().charAt(0);
```

String :-

collection of characters

Character :- single letter, (a-z, A-Z)
special character
(", . ? ! * _ -)

```
abc*?! Ab
```

```
String abc = "abc*?!Nishant Hello";
char xyz = 'c';
```

```
int xyz = 4;
```

```
string mystring = "aaaaaa"
                  "bbbb"
                  "abcd"
```

```
Scanner sc = new Scanner(System.in);
int myVar = sc.nextInt();
```

```
int myVar = 4;
myVar = 6;
      = 7;
```

Comparision & logical operators

0. `=` Assignment
1. `==` comparison
2. `!=`
3. `>` Greater than
4. `<` less than
5. `>=`

6. <

7. <=

8. && → c1 && c2 → right operand
   ↙ left operand
   ↓ operator

9. ||

If both conditions are true then only whole condition is true

If any of the condition is true the whole condition is true

```
Scanner sc = new Scanner(System.in);
int var1 = sc.nextInt();
int var2 = sc.nextInt();
int var3 = sc.nextInt();
Boolean var4 = sc.nextBoolean();
System.out.println(var1+var2);
sout(var1+var2*var3);
```

String str = "Hello";

SOUT (str) : op ⇒ Hello

SOUT (str + "world"); →

op:
Hello
world

SOUT ("Hello" + "world");

Helloworld

SOUT ("Hello" + "_world")

SOUT ("Hello" + " " + "world")

```
import java.util.*;
// "static void main" must be defined in a public class.
public class Main {
    public static void main(String[] args) {
//        int myVar1 = 3;
//        System.out.println(myVar1);


//        Scanner sc = new Scanner(System.in);
//        int myVar2 = sc.nextInt();
//        System.out.println(myVar2);

//        Boolean myVar3 = sc.nextBoolean();
//        System.out.println(myVar3);

        Scanner sc = new Scanner(System.in);
        int a = sc.nextInt();
        int b = sc.nextInt();
        int c = sc.nextInt();

       Boolean abc = a>b && c>b;

       // Boolean x = sc.nextBoolean();
       // Boolean y = sc.nextBoolean();


       //a = c; //Assignment operator : Assigns the value of right operand
to left operand

       System.out.println(abc); // Comparision operator : compares the
values on left and right of the operator



    }
}
```

Truth table for AND and OR operator

```
//    #     c1 || c2

//             c1     c2.      Complete
//             true.  true.     true
//             true.  false.    true
//             false  true.     true
//             false  false.    false


//    #.   c1 && c2

//              c1     c2.      Complete
//             true.  true.     true
//             true.  false.    false
//             false  true.     false
//             false  false.    false



// int var = 4;
```

HW

```
// Play around with code
// take two boolean numbers in the input and print a&&b, a||b
```