Data-Types:

Primitive and non-primitive.

Type Default value

Byte 0

Short 0

Int 0

Long 0

Float 0.0

Double 0.0

Char empty char

Boolean false

String null

Operators:

Arithmetic

Logical- &&, ||,!

Relational- >, >=, <, <=, == , !=

Increment operators—

pre incre🡪 1st increment and take the incremented value.

Post incre🡪 1st take the value and then increment for the next time.

**public** **class** Operators {

**public** **static** **void** main(String[] args) {

**int** a = 0;

//

// int b = 0;

//

// b = ++a + a++ + ++a ; //++a= 1, a++=2 but it will gets incremented to 2 after it takes the value as 1 to b, ++a=3.

System.***out***.println(++a); //1

System.***out***.println(++a); //2

System.***out***.println(a++); //2

System.***out***.println(a++); //3

System.***out***.println(a++); //4

System.***out***.println(++a); //6

}

}

Bitwise operators-- & , |

Shift operators🡪 Right shift (>>)

e.g, 8 4 2 1

10🡪 1 0 1 0

10>>1 0 1 0 1 (5)

10>>2 0 0 1 0 (2)

Left Shift (>>)

32 16 8 4 2 1

10🡪 0 0 1 0 1 0

10<<1 0 1 0 1 0 0 (20)

10<<2 1 0 1 0 0 0 (40)

So, basically, right shift is dividing by the (number)to the power 2

left shift is multiplying by the (number)to the power 2