

Operators in Java →

Operators are special symbols that work on operands and perform mathematical, logical etc. operations.

★ Symbol that tell compiler to perform some operations ★

sum = a + b expression
sum = a + b; Statement
 ↓ ↓
 Operands + is operator

Arithmetic operators in Java →

+ , - , * , / , % (Binary)
+ + (Increment), - - (Decrement) and - Unary^{minus}

Relational operators (Bool give out result either true or false)
> , < , >= , <= , == , !=

Logical operators →

Used to combine 2 or more relational expressions. Combine 2 or more expressions

AND (&) All true then true

OR (|) Either one exp true then true

NOT (!) Inverter

★ OR → (Short Circuiting Concept)

Bitwise operators Used to do Bit manipulation

Assignment operators \rightarrow
 $=$ (Used to assign value) (Unary)
Short hand Assignment \rightarrow
 $+=, -=, *=, /=, \%=$

++ Increment \rightarrow

Post and Pre Increment

Pre Inc \rightarrow Ex $\rightarrow ++a$

- ① First Increase Value
- ② Then Assign

Post Inc \rightarrow Ex $\rightarrow a++$

- ① First Assignment
- ② Then Inc value

-- (Decrement operator) \rightarrow

Pre DEC \rightarrow Ex $\rightarrow --a$

- ① First Decrease value
- ② Then assign value

Post Decrement \rightarrow Ex $a--$

- ① First Assign value
- ② Then Decrease value

0 \rightarrow false, 1 \rightarrow true

AND (22)		T T
A	B	Result
1	1	1
1	0	0
0	1	0
0	0	0

OR (11)		T T
A	B	Result
1	1	1
1	0	1
0	1	1
0	0	0