

Operator

Arithmetic = + - * / %

Relational == != > < >= <=

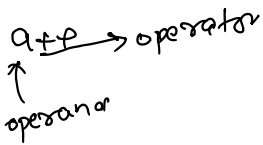
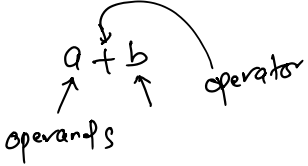
Logical & || !

Assignment = += -= *=

Increment/Dec. ++ --

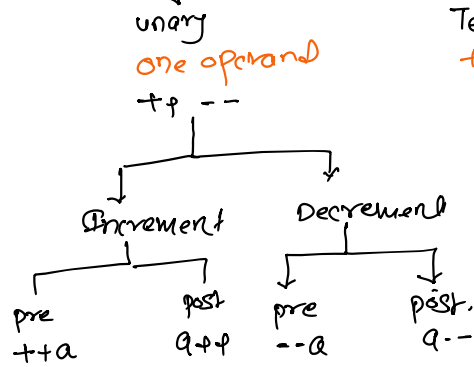
Bitwise & | ^ ~ << >>

Conditional (Ternary) ? :



$a = 10$
 $++a = 11$
 $a \&\& = 11$
 $a = 10$
 $--a \rightarrow 9$
 $a-- \rightarrow 9$

Binary
two operand
+ - * / %
== != > <
>= <= & || !



Ternary
three operand
 $a > b ? \text{True} : \text{False}$
condition? $a = 10, b = 20$
 $a > b ? \text{"Hello"} : \text{"Hi"}$

0/.

3 % 2 1 Remainder (1)

1
a = 10

Remainder

b = 2

a % b

10 % 2 10
2

0

4 % 3 1

2 % 2 0

c = a == b
10 2010 == 20 ? False
0c = a == b
10 1010 == 10 Yes
1

a = 10, b = 20

a != b

10 != 20 True
1

if logical and

a = 10, b = 20
c = a & b
= 10 & 20
= 0

a = 0, b = 1
0 & 1
= 0

a = 0, b = 0
0 & 0
= 0

logical OR			
a	b	a b	a b
0	0	0	0
0	1	0	1
1	0	0	1
1	1	1 (Non zero)	1
10	0	0	1
10	10	1	1
0	10	0	1
0	10	0	1
0	0	0	0

$$a=10, b=20$$

$+=$ addition assignment

$$a += b \rightarrow a = a + b = 10 + 20 = 30 \quad \boxed{a=30}$$

$-=$ subs. assignment

$$a -= b \rightarrow a = a - b = 10 - 20 = -10 \quad \boxed{a=-10}$$

$\times=$ mul. assign.

$$a \times b \rightarrow a = a \times b = 10 \times 20 = 200 \quad \boxed{a=200}$$

$/=$ divide assign

$$a /= b \rightarrow a = a / b = 10 / 20 = 0.5 \quad \boxed{a=0.5}$$

$\%=$ mod assign

$$a \% b \rightarrow a = a \% b = 10 \% 20 = 10 \quad \boxed{a=10}$$