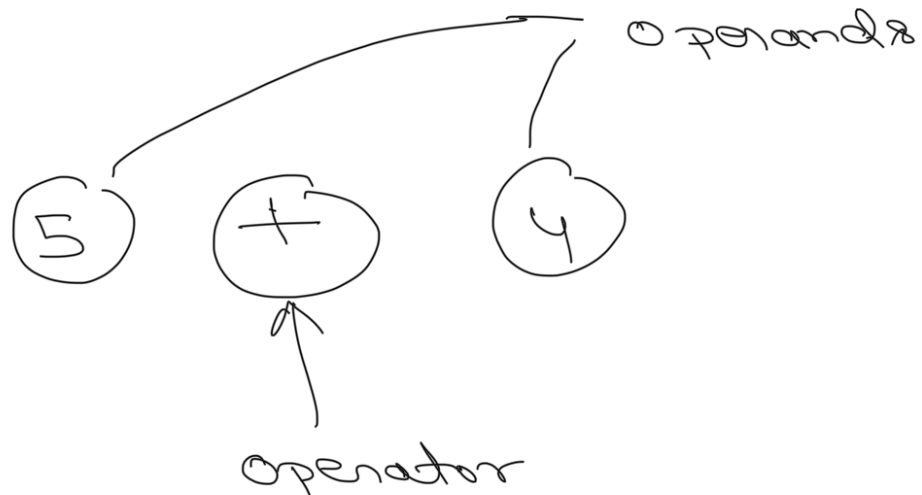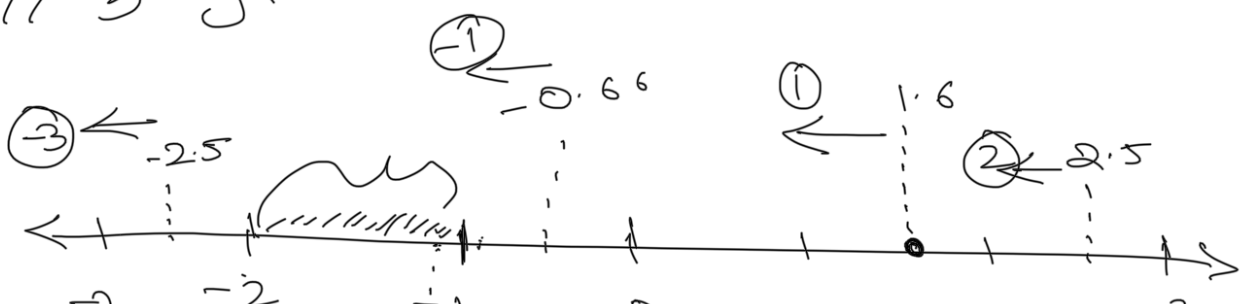# Session 3 : Operators

→ Arithmatic Operators

→ Precedence of Operators

→ Assignment Operators

→ Comparison Operators

→ Logical Operators

→ Identity Operators

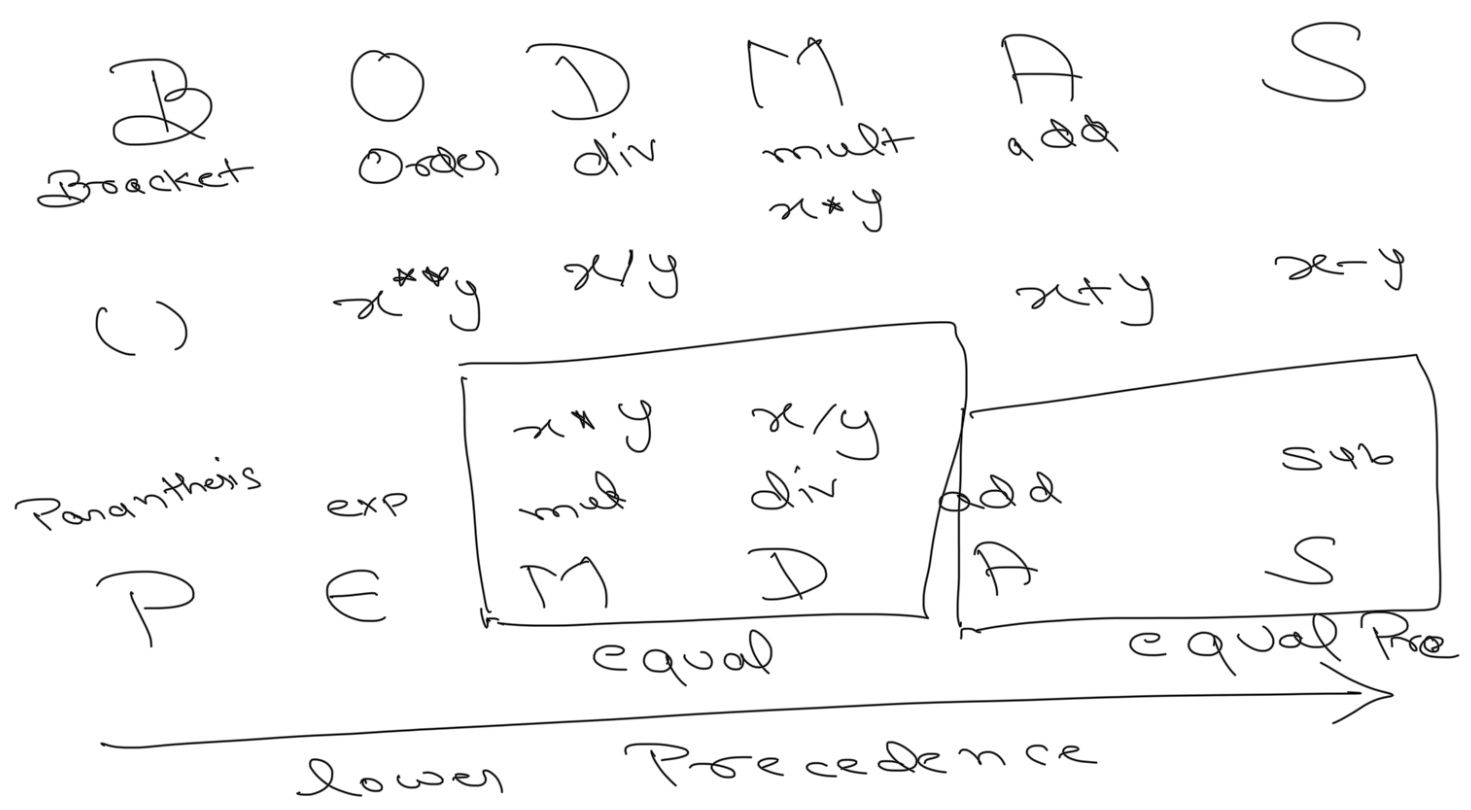## Arithmatic Operation

Operands

5 + 4

Operator

// → floor division

4   —   -1   0   1   2   3

/ ⊕ → -1.999

// ⇒ -2

1 ←——→ 2

B   O   D   M   A   S
Bracket   Order   div   mult   add
                                       x*y

             x**y   x/y   x+y   x-y

( )

$$\boxed{\begin{matrix} x*y & x/y \\ mul & div \\ M & D \end{matrix}}$$ $$\boxed{\begin{matrix} add & Sub \\ A & S \end{matrix}}$$

Paranthesis   exp

P   E   equal   equal Pre

——————————————————————————————→
lower   Precedence

10   —   4 × 2   +   5   —   (6 / 2)
              ↓
① 10   —   8   +   5   —   6/2

② 10   —   8   +   5   —   3.0

③ 10 — 3 — 3.0

④ 7 — 3.0

⑤ 4.0

Assignment Operator

$$a = 10$$

$$a = a + 5 \implies a += 5$$

is ↓

15

R.H.S
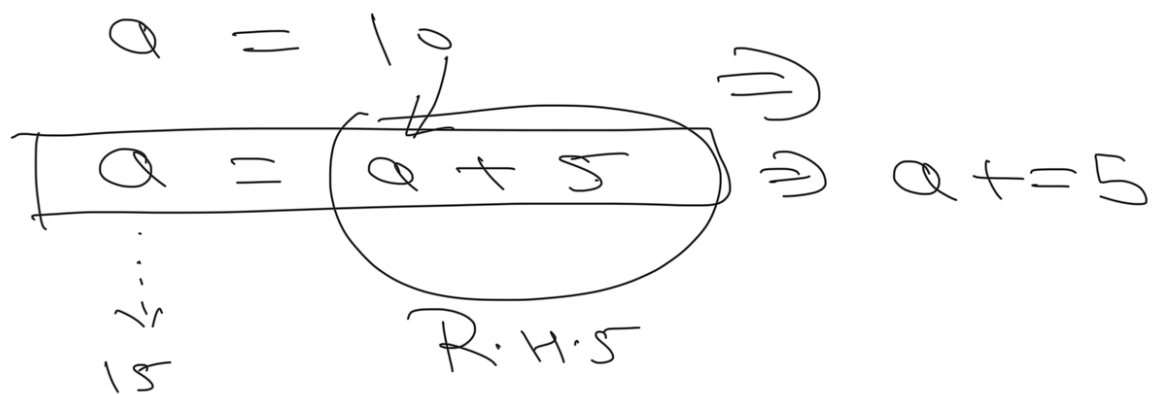
$$x = x + y \implies x += y$$

$$x = x - y \implies x -= y$$

$$x = x * y \implies x *= y$$

$$(* = /$$

$6 / 2 * 3$

$6 . \pi \alpha (3$

① → $3.0 * 3$

② 9.0

① $12 / 3$

② 4.0

② Comparison Operator