"Hello Everyone!"

Operators

+ Quizes

$$a = 5 + 4$$

operator

operands

expression

equation

assignment operator
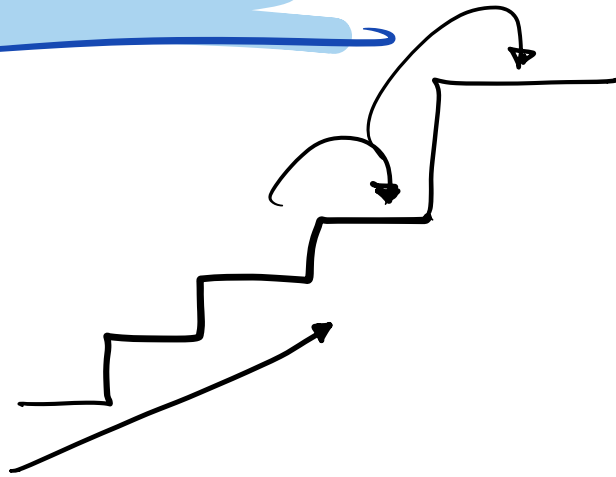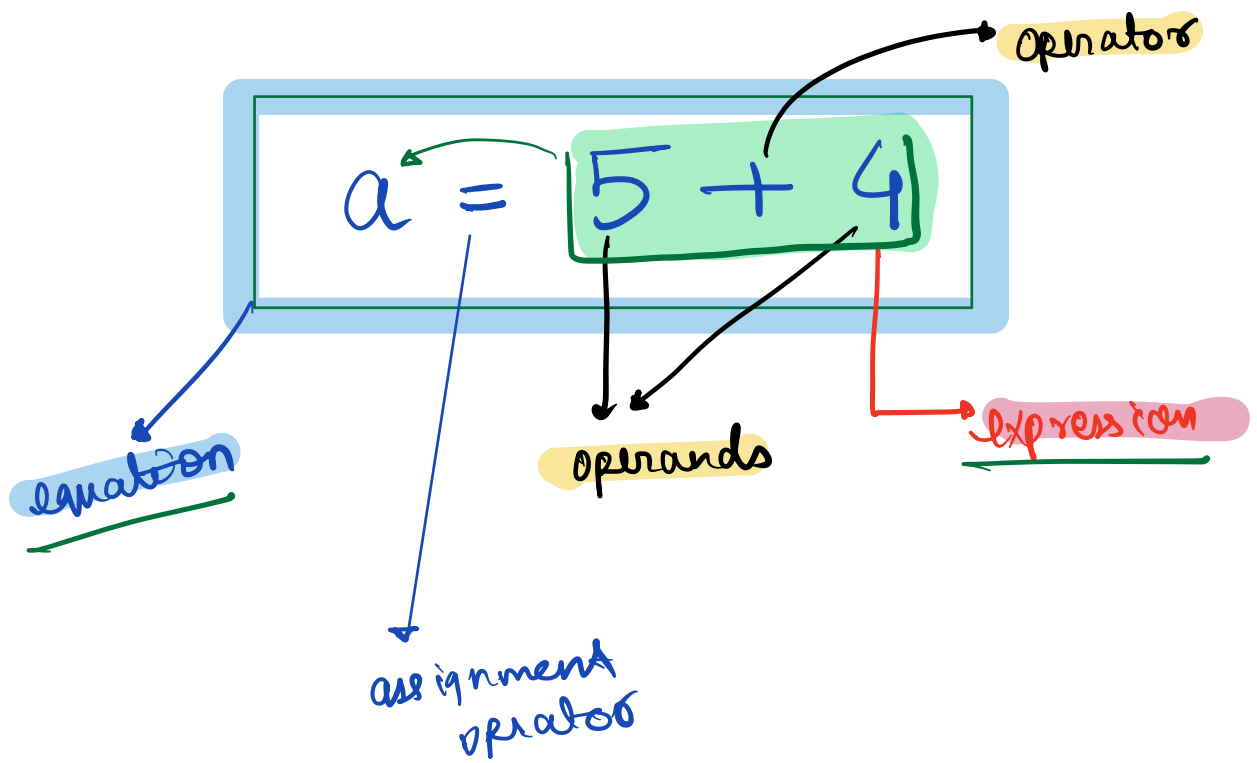
① Arithmetic Operators

$$[+, -, /, *, //, **, \%]$$

*

$\underline{①}$ (//) — floored Division Operator

floor (x)

↳ Greatest int

Smaller than x'

<u>eg:</u>   floor (2.3)

3

2.3

floor (5.9) $\longrightarrow$ 5

4   5   6   7

5.9
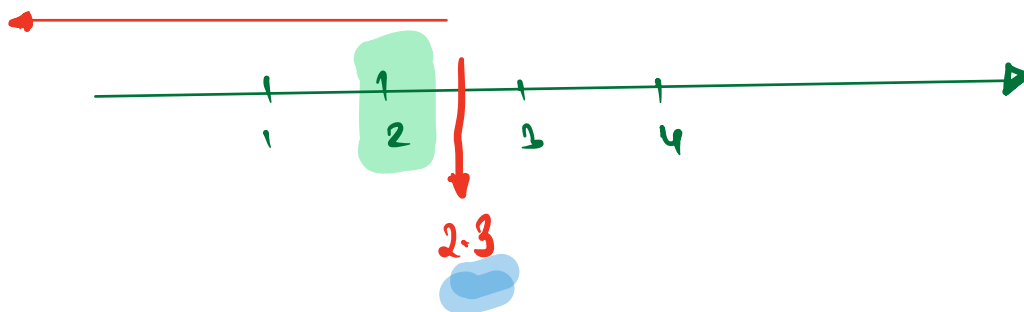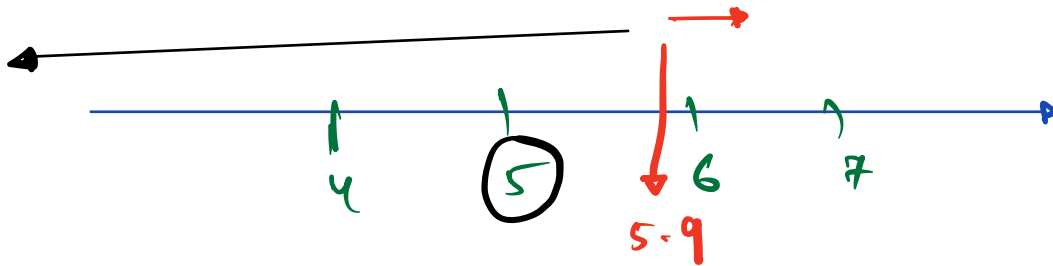
floor (0.7) $\longrightarrow$ 0

10 // 3

10/3 $\longrightarrow$ flour (3.33) $\longrightarrow$ 3

$- 3$

$floor(- 3.\underline{2})$

$\boxed{-2}$

$-4 \quad -3 \quad -2 \quad -1$

-3.2
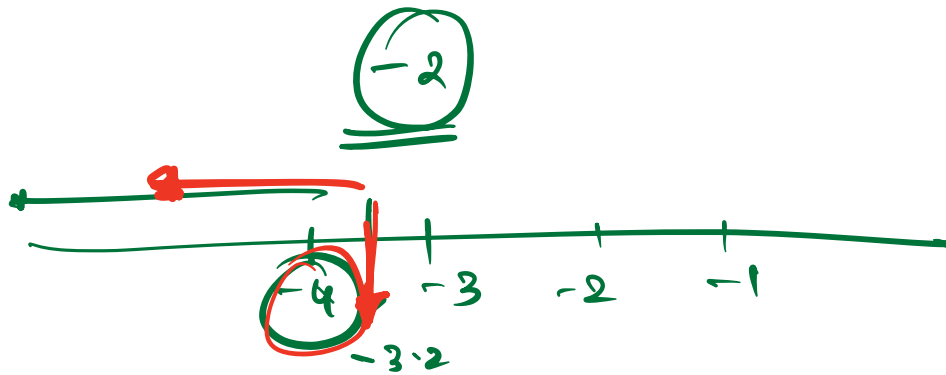
$-10 // 3$

$floor(- 3.33) \longrightarrow \boxed{-4}$

④ $**$ $\longrightarrow$ __power__

$$x ** y \longrightarrow x^y$$

$4 ** 2 \longrightarrow \bullet$

$25^{(0.5)} \longrightarrow 25^{1/2}$

$\downarrow$

⑤

(5) % $\longrightarrow$ <u>Modulus</u>

$\qquad$ $\longrightarrow$ (<u>Remainder</u>)

$x \% y \longrightarrow$ remainder obtained by x/y

$10 \% 2 \longrightarrow 0$

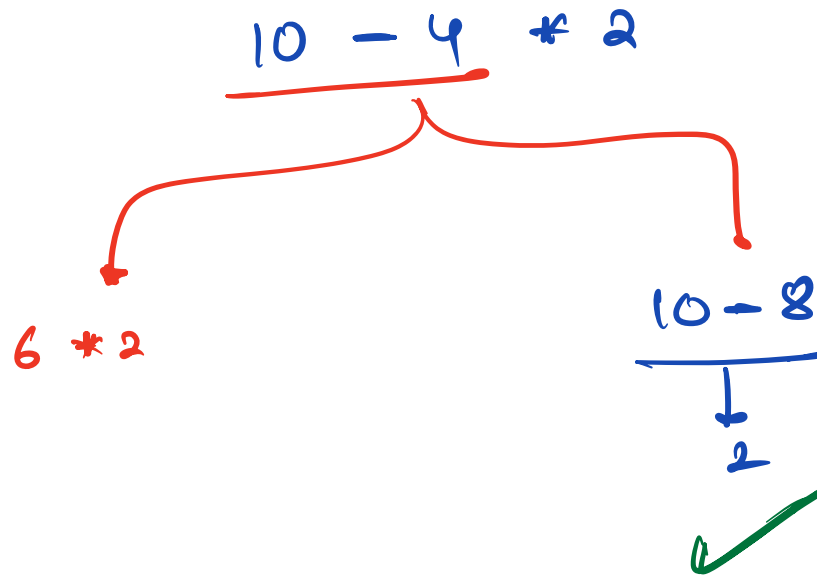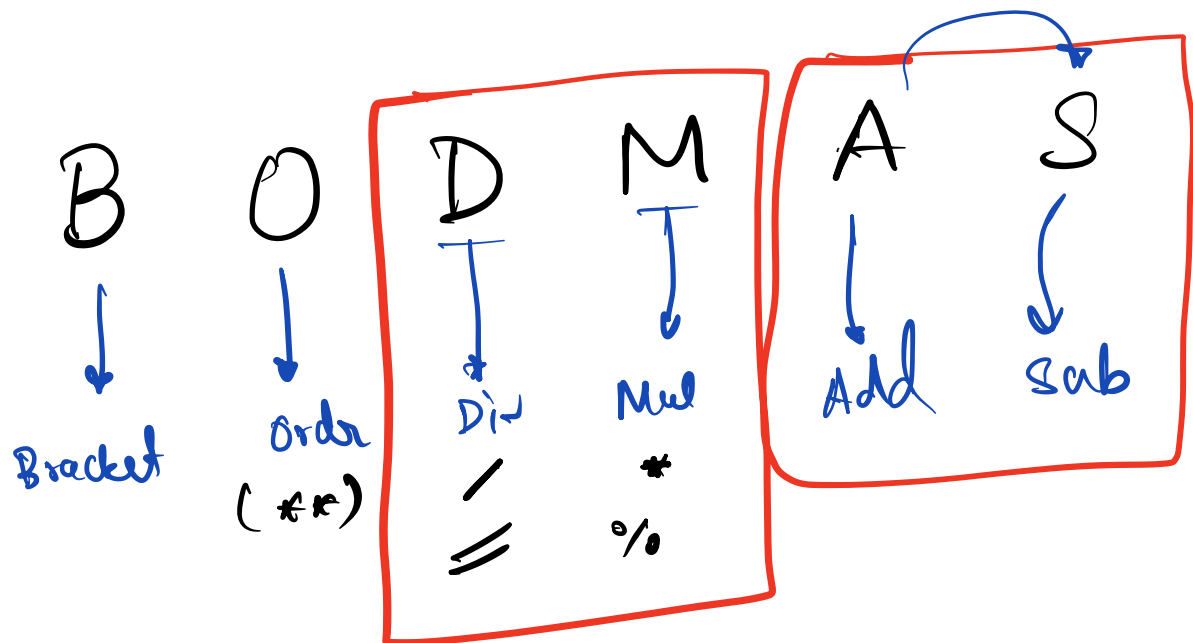$10 \% 3 \longrightarrow \underline{1}$

$5 \% 3 \longrightarrow 2$

Extra :-

$-10 \% 3 \longrightarrow ?$ (HW)

* Presedence of Opraters

$$10 - 4 * 2$$

$6 * 2$

$$\frac{10 - 8}{\downarrow}$$
$$2$$

✓

B O D M A S

B → Bracket

O → Order (**)

D → Div / ⫽

M → Mul * %

A → Add

S → Sub

Rule :- equal ~~precedence~~

left ——→ Right

10 — 2 + 3

↓

8 + 3

↓

11
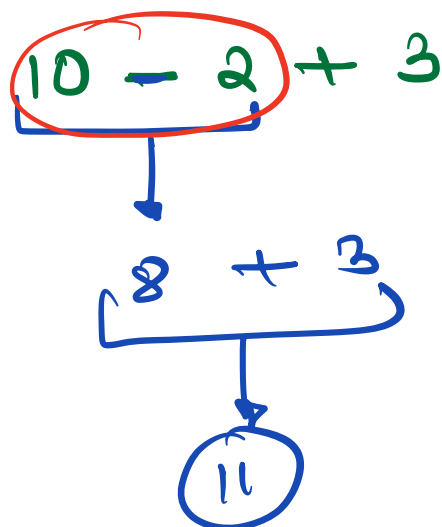
$$10 \; \boxed{- \; 2 \; + \; 3}$$

$$10 \; + \; 1$$

$$\overline{}$$

$$\textcircled{11}$$

Ans :→

Python ⟶ $(10 - 4**2 + 5 - 6/2)$

⊗ 4

✓ 4.0

$10 - 8 + 5 - 6/2$

$10 - 8 + 5 - 3.0$

$2 + 5 - 3.0$

$7 - 3.0$

⟶ 4.0

$3 \% 5 \longrightarrow ③$

10 : 12

② Comparator / Relationship Operators

(>, <, >=, <= == , !=)

bool
T/F

!
￬

equal ?

not equal

!(True) ⟶ False

③ Assignment Operators

$$a = \boxed{}$$
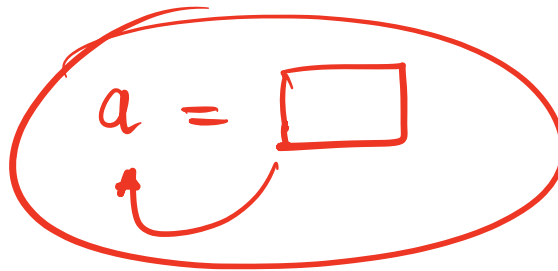
$= \longrightarrow$ standard assignment operator.

$a = 4$

$b = \boxed{a + 3}$

a
$\boxed{4}$

b
$\boxed{4 + 3}$

$\boxed{7}$

① $a = 4$

$a = \boxed{a + 4}$ ①

a

④

$= 4 + 4$

$\boxed{a \ ② = \ 8}$
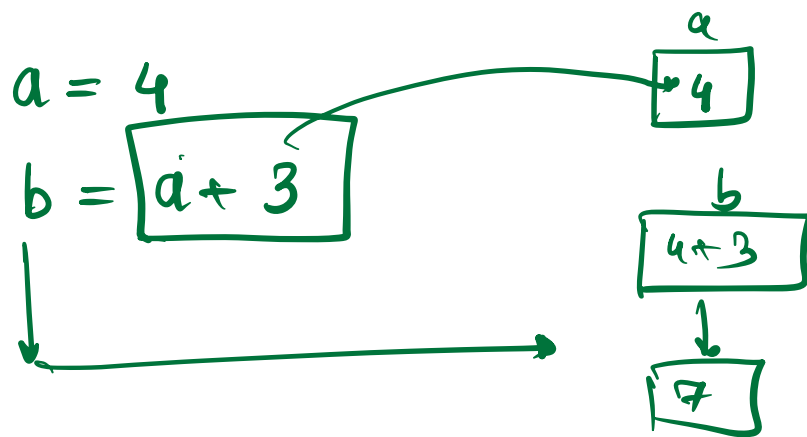
$print(a) \rightarrow 8$
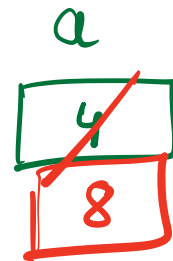
Note:- Assignment always happens at the end.

* Special Assignment Operators

$a = 3$

$a += 4$

$a = a + 4$

H.W $\underline{++} \rightarrow ?$

$$a \ {-}{=} \ 3$$

$a = -3$ ✗ $a = a - 3$

$a = 9$

$a \ /{=} \ 3$

$a = a/3$

$= 9/3$

$a = 3.0$