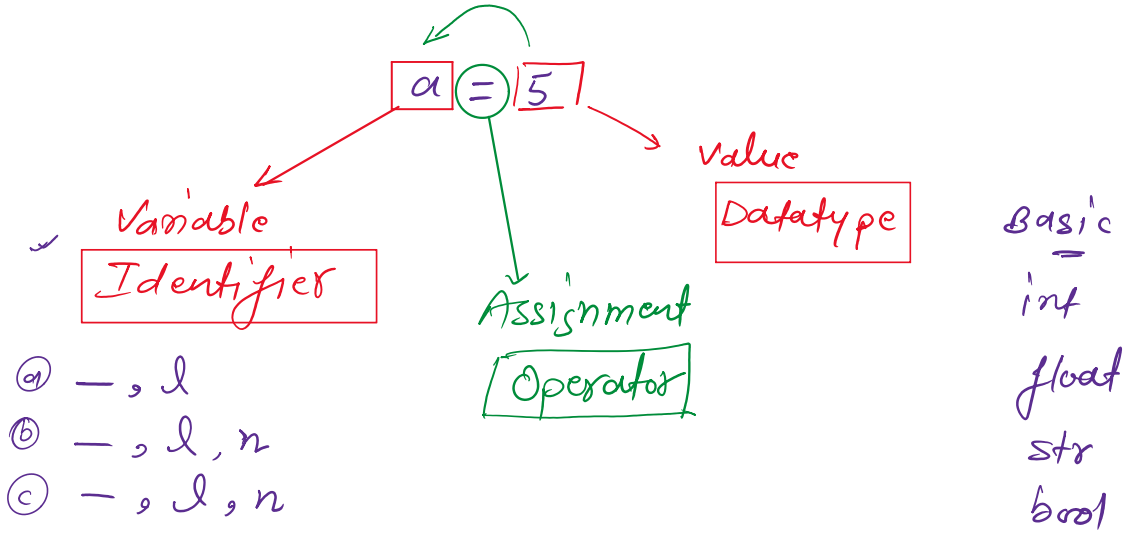
DS_02

04 July 2025 15:43



print() , type() , input()

a = 10 : static value

a = input() : dynamic value

(or)

a = input("Enter a number value:")

↳ msg

Note: input() always receives value in string format.

age = int(input("msg"))

↳ dtype : int

Operators

① Arithmetic operator : +, -, *, /, //, %, **

/ : exact quotient (decimal) $\frac{10}{3} = 3.33..$

// : floor quotient (integer) $3\overline{)10}\,(3 = 3$, $\frac{9}{1}$

% : Modulo (Remainder) ① → %

% : Modulo (Remainder)

** : Exponentiation (power)

① → %

$(3)^2$ ⇒ 3**2 ⇒ 9

$(3)^4$ ⇒ 3**4 ⇒ 64

num with num : all

num with str : *

str with str : + (concatenation)

num
int
float
bool

② Assignment Operator (numbers)

=, +=, -=, *=, /= ....

a = 10

a += 10 ⇒ a = a + 10
(10)

o/p → 20

Note : To write a comment in code cell we can use #.

③ Comparison Operator (numbers)

==, >, <, >=, <=, !=

a = 10

b = 20

a > b → False

a != b → True

④ Logical Operator (number)

and, or, not

and → Both

or → One or Both

not → Opposite of result

o/p	i/p	and	or
T	T	T	T

ex: a = 10, b = 5

i/p	i/p	and	or
T	T	T	T
T	F	F	T
F	T	F	T
F	F	F	F

ex: a = 10 , b = 5

a > b and b < a

↳ True

or

a > b and b > a

↳ False

↳ True

⑤ Membership Operator (strings)

in , not in

e.g. 'U' in 'Uwaish'

↳ True

⑥ Identity Operator (number)

is , is not

e.g. 10 is 10

↳ True.

To Do : Bitwise Operator