Python

Datatype

Iterable — str, List, tuple, set, Dict.

non-iterable — Int, float, complex, bool.

$7890 \rightarrow$ Int

'7890' $\rightarrow$ str.
0 1 2 3

True — 1
False — 0

Operators

① Arithmetic

$$+$$
$$-$$
$$*$$
$$/$$
$$**$$
$$\% \quad \Rightarrow$$
$$// \quad \rightarrow$$

② Comparision

$$<$$
$$>$$
$$<=$$
$$>=$$
$$==$$
$$!=$$

$$3 > 2$$

$$4 < 5 =$$

③ logical

and	T and T = T
or	T and F = F
not	F and T = F
	F and F = F

is / in

T or T = T
F or T = T
T or F = T
F or F = F

④ Assign.

$a = 4$

$b = 5$

$6 = c$

$a == b \quad = F$

$a = b$

$a = 5$

variable

name = 'amit'

✗ 1name = 'amit'

✗ name 1 = xyz

✗ name@ = xyz

First_name = xyz

_ = 10

a,b,c,d,e = 10,20,30,40,50

a = 10   c = 30   e = 50
b = 20   d = 40

Type casting

"Python" - str

List (str)

$$[P, y, t, h, o, n]$$

int (str) ✗

str1 = "989822"

float (str1)

$\Rightarrow$ 989822.0

"a-z, 0-9, —, Special charact. [ ]"

[0, 'abc',   ]

(   )

{   }

{ 1: a,   2: b   }