

30th Jan

Python Basics:

- * variables: In python or in any programming language we store data in form of variables.

eg: `a = 10` ← input (a is variable)
 `a` ← calling a print shift+enter or
 `10` ← ctrl + run button

- * short-cut to run code in jupyter notebook use (shift+enter) or run button.

- * Python is a programming language that supports scripting (scripting is a code written by without following any oop concept)

- * Python is self-typed language that means python system automatically get to know the datatype of variable declared.

eg: `a = 10`
 here datatype of `a` is int.

- * To check type of data variable.

eg: ① `a = 10`

`type(a)`

 ↳ int

② `sudh = "sanjana"`

`type(sudh)`

 ↳ (string) 'str'

③ `a = [1, 2, 3, 4]`

`type(a)`

 ↳ list

④ `a = 1.23`

`type(a)`

 ↳ float

⑤ `n = True`

`type(n)`

 ↳ bool (boolean)

⑥ `m = False`

`type(m)`

 ↳ bool

⑦ `n+m`

 ↳ 1 (internally true is 1

 & False is 0) so 1+0
 is 1 i.e. $(n+m)=1$.