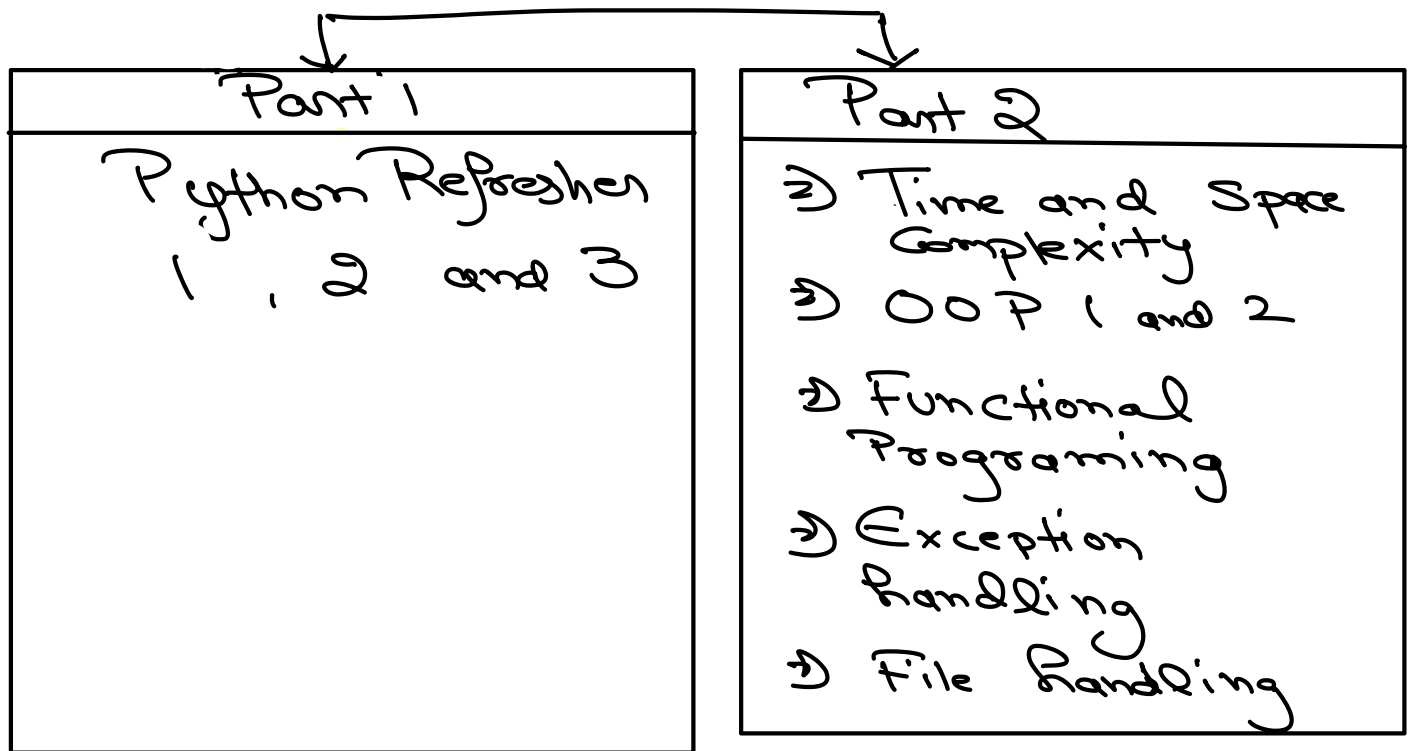


Python Refresher 1

Advanced Python



To - do

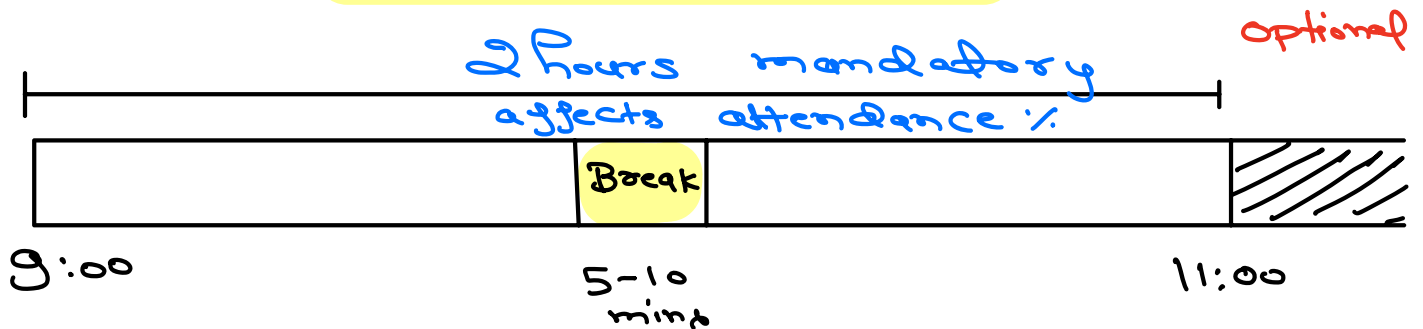
- ⇒ Assignments (V important)
- ⇒ Homework (Optional)
- ⇒ Extra Questions (Optional)

* After Every 6 session we will have a problem Solving optional session to discuss all Queries

⇒ remember Assignments impact PSP which is one of the key metric used by Rising managers along with attendance %

* PST = Problem Solving %

Class Structure



Today's Topic

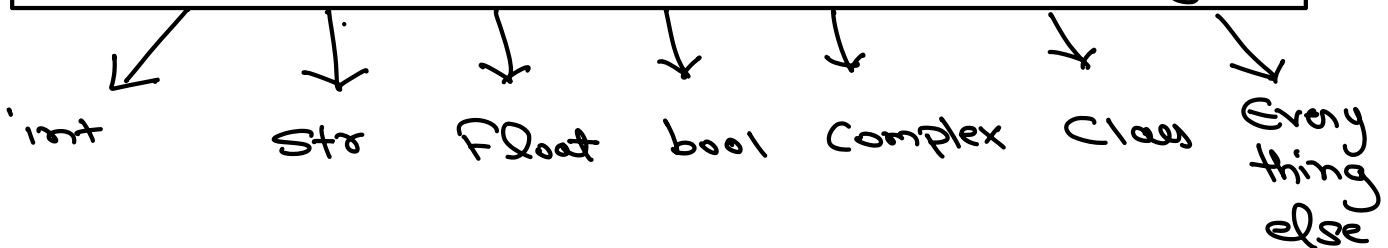
① Datatypes in Python

⇒ Python does not have primitive data types

⇒ Python has FCC (First Class Citizens)

FCC

Everything is an object with equal Rights



⇒ Python is dynamical typed:

int a = 10

a = 10 ✓

Ques? \Rightarrow

Interpreted
or
Compiled?

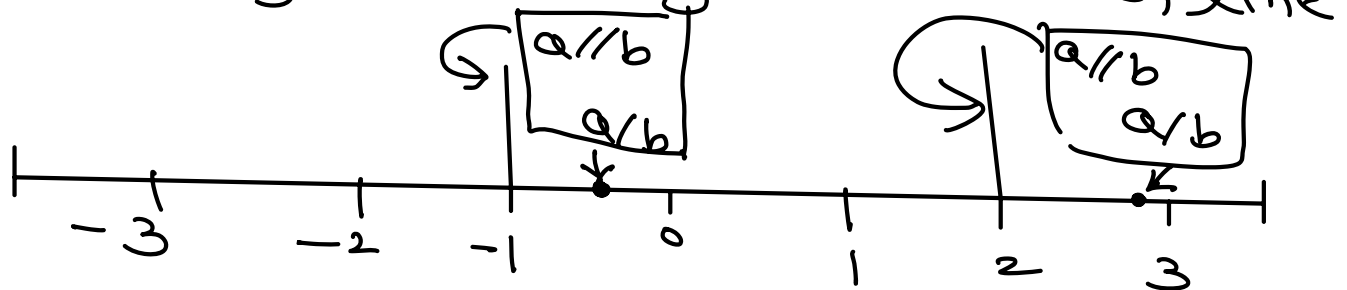
Ans: Both

\Rightarrow many implementations of Python are available such as cython, pypy, jpython

Arithmetic Ops

// \Rightarrow Floor Div

\Rightarrow Always imagine



$a/b \Rightarrow 1.99999$ then $a//b \Rightarrow 1$

Mutable vs Immutable

Mutable

→ Can be updated after creation

→ Ex: List \Rightarrow `[]`
Set \Rightarrow `{}`
Dict \Rightarrow `{}`

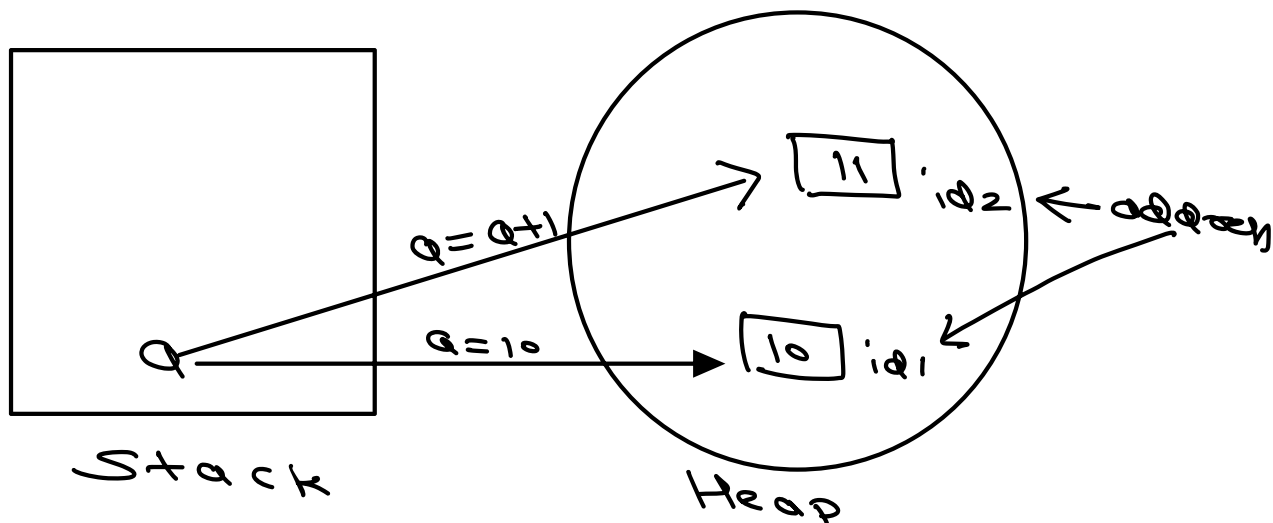
Immutable

→ Can't be updated after creation

→ Ex: Everything apart from above three

Memory Management

Ex: immutable \Rightarrow `q = 10`
`q = q + 1`



Garbage Collector

- 1) Maintains RC table
- 2) Whenever reference count of an object becomes 0, the object is deleted.

Ex:

RC	object
2	10
1	9
0	'Hi'

← To be deleted