

# Python Refresher 1

Part 1

3 sessions of python Refresher

Part 2

- ⇒ OOP → 2
- ⇒ Functional → 2 ←
- ⇒ Time and Space Complexity
- ⇒ Exception Handling
- ⇒ File - Handling

- ⇒ Assignments → Mandatory
- ⇒ Home-works ⇒ optional

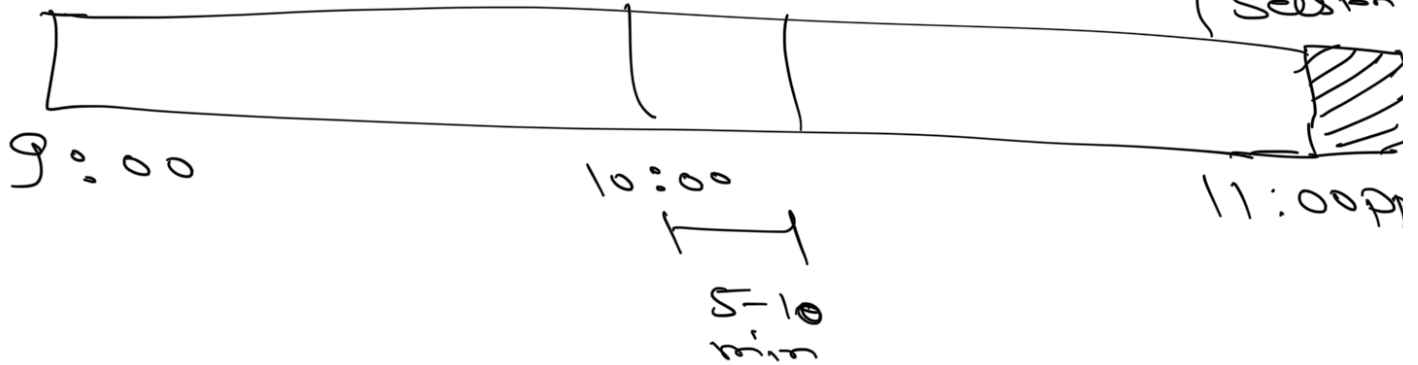
PSP ⇒ Problem Solving %

⇒ Extra 0's

11)

Q. How

D. Solvin  
Session



Data-types in Python

1) Python Does not Have any primitive data-type

2) FCC  $\Rightarrow$  First Class Citizen

Everything in Python  
is object with Equal  
rights

3) int, float, complex, boolean  
string

4) Python is dynamically  
typed

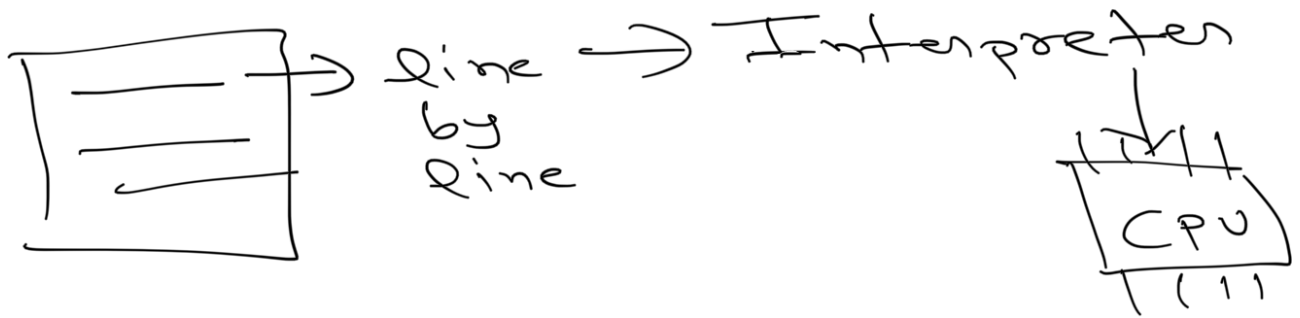
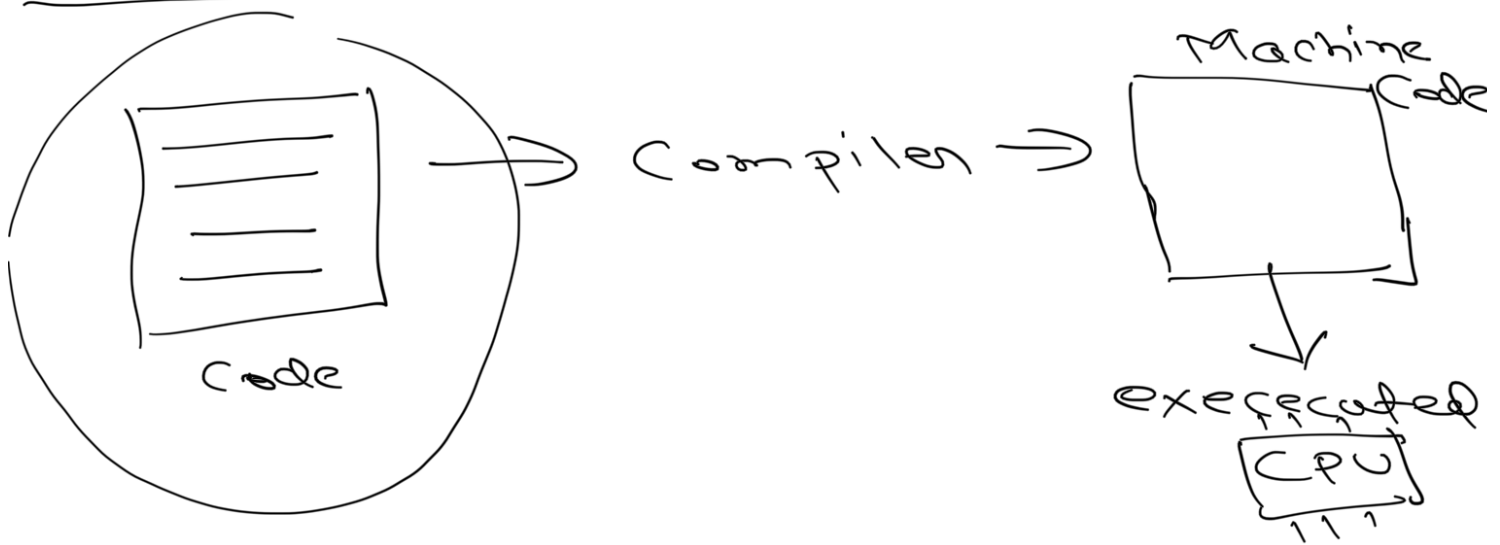
T. ... ..

Interpreted or Compiled?

Ans: It depends

• Pyc  
↔

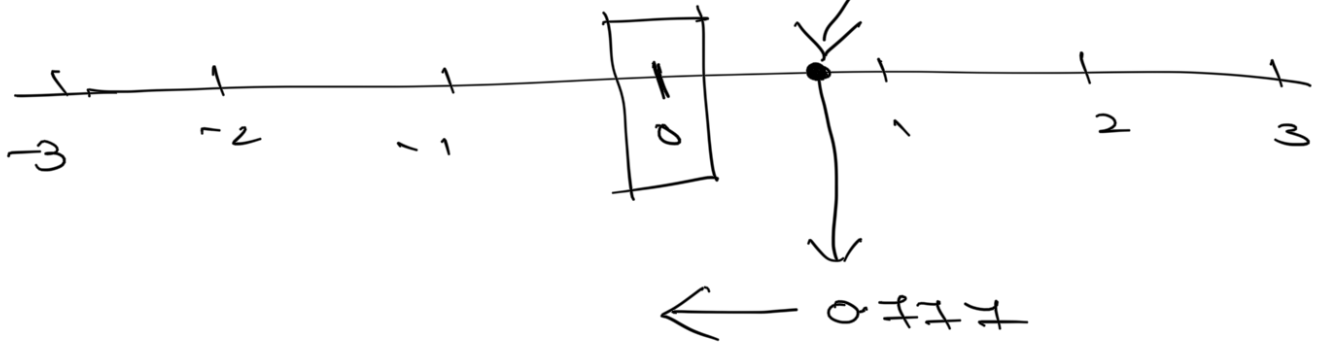
Cython, PyPy, JPython



Everything is an Object

+ 100 - 5ive

$a // b \Rightarrow (a, b)$



$a / b$

$[1.999999] \dots$

$a // b$   
 $1$

Mutables

- $\Rightarrow$  Value can change
- $\Rightarrow$  List / Set / Dictionary

Immutable

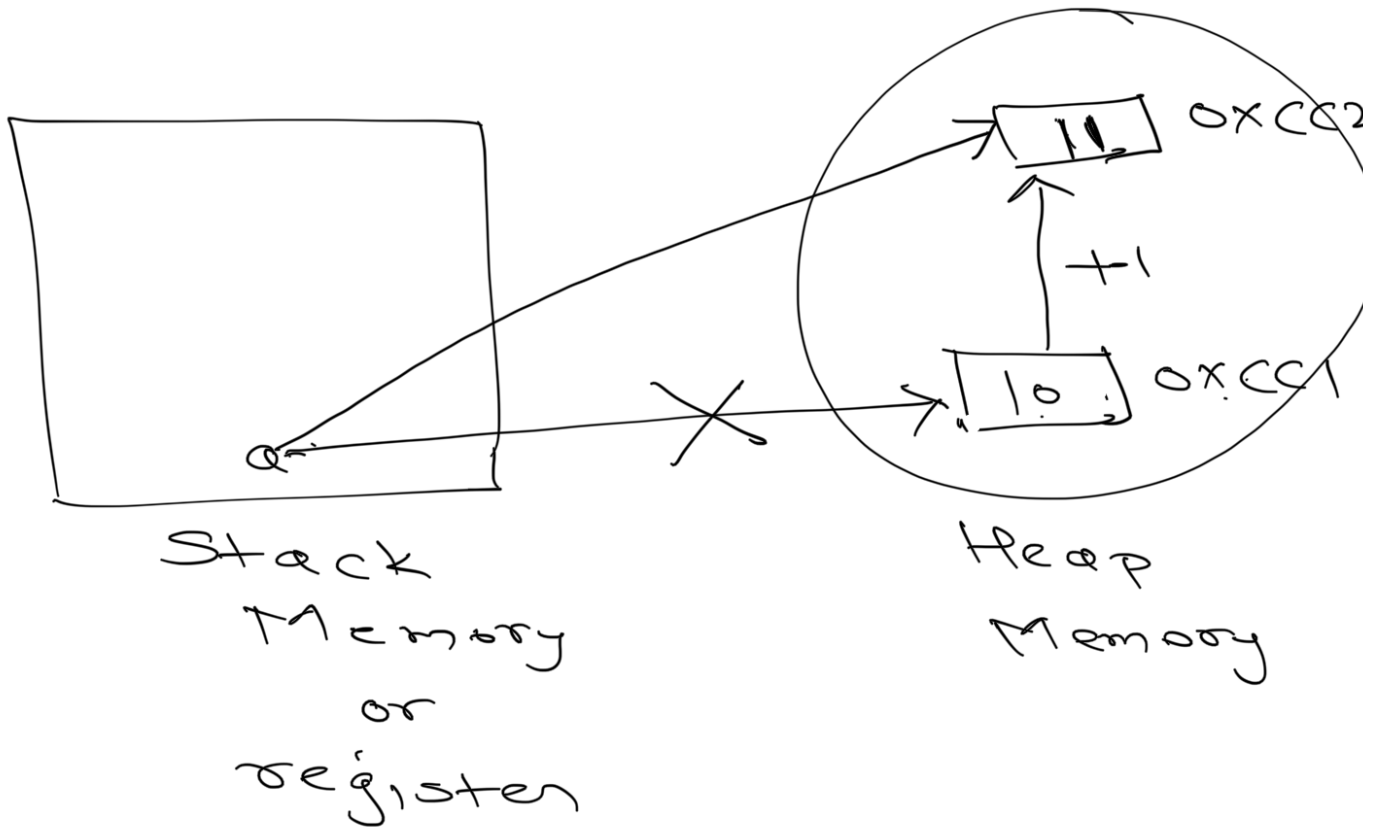
- $\Rightarrow$  Values cannot change
- $\Rightarrow$  Everything Else

# Memory Management

⇒ Immutable

$Q = 10$

$Q = Q + 1$



R.C Table

0	10
1	11

G.C

Garbage Collection

$Q = 10$

R.C Value

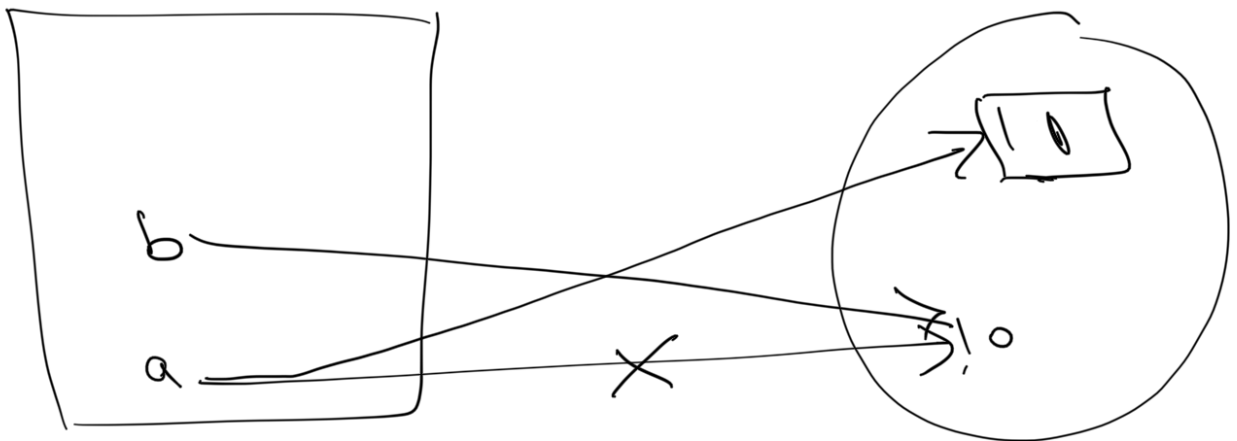
0	10
---	----

$b = a$   
 $a = a + 1$

$a$  and  $b$   
 reference  
 Variables

2	10
---	----

Print ( $a$ ,  $b$ )



$a = 10$

$b = a$

$a = a + 1$

R	V
1	10
1	11