

- Quizzes
  - Assignments
  - Home-work Questions
  - Extra Questions (Optional)
- Session  
DASHBOARD  
Solve these  
Questions

## During Class

- Take Notes
- Ask a lot of Questions
- Collaborate with your peers
- Revisit Recordings
- Github Account

↓

All Notes  
Codes

Make learning habit

learning Habit

↓

Advanced Python Module

Part 1  
→ def, for, else

Part 2  
↳ DSA  
↳ Space Time

Part 3  
↳ OOP  
↳ FP  
↳ Coro  
↳ RandF  
↳ File  
↳ Opt

Data Types

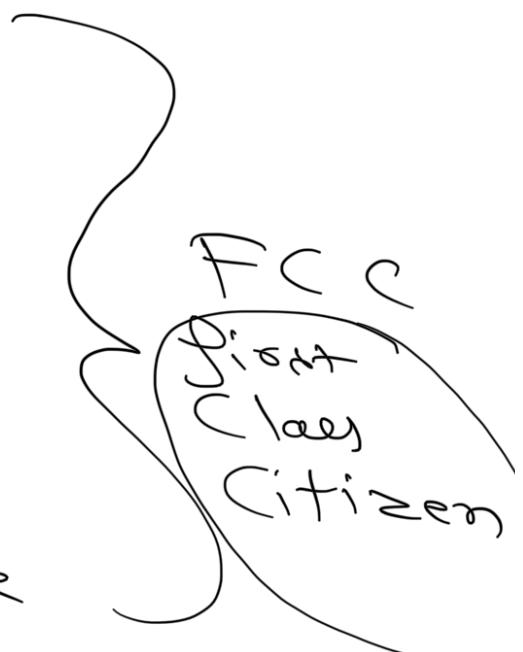
- Python is Dynamically typed language
- Python has FCC
- Python does not have

Primitive Data types

~~int  
float~~

Classes →

int  
float  
String  
tuple  
Dict  
List  
Nonetype  
Complex



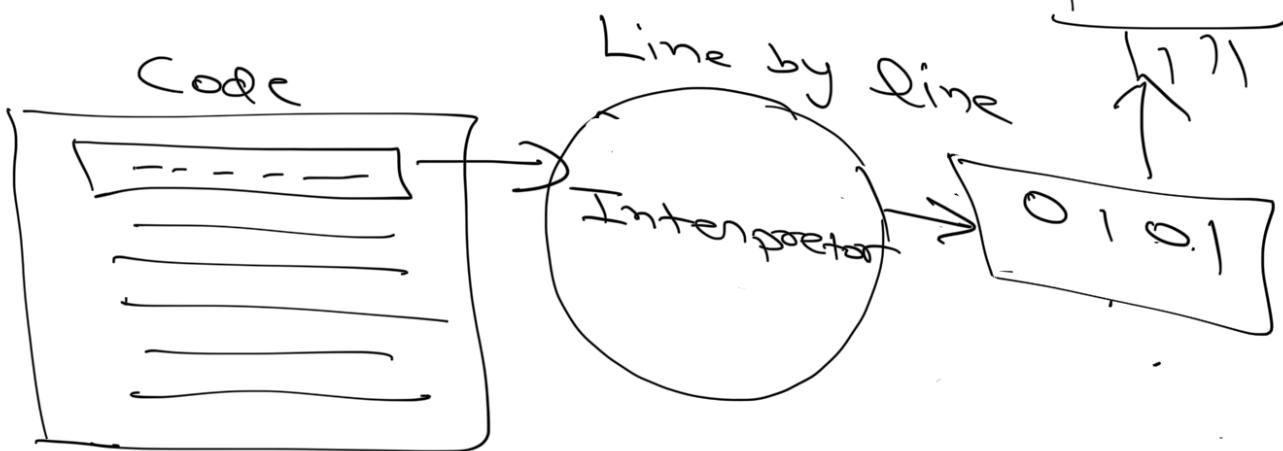
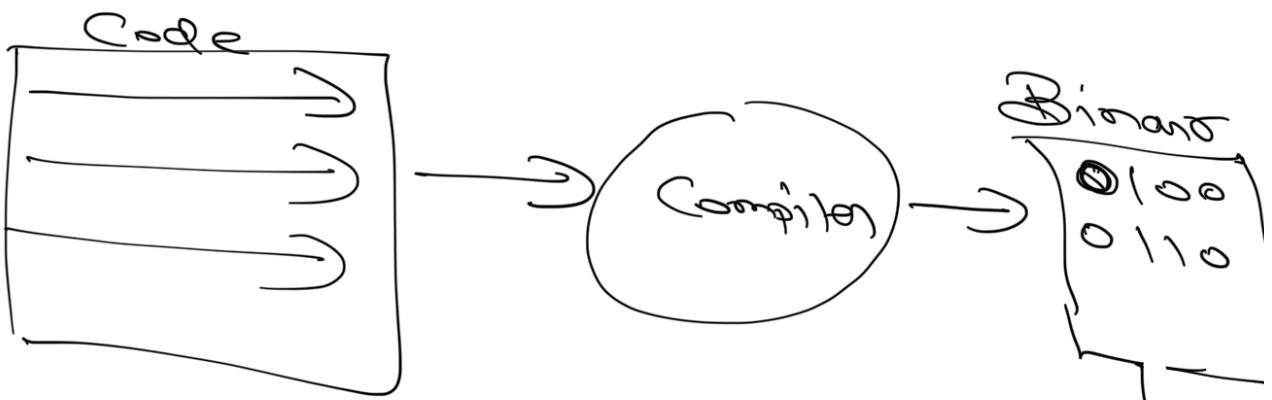
⇒ FCC

Assigned to a Variable  
Passed to a function as  
Parameter  
returned from function

---

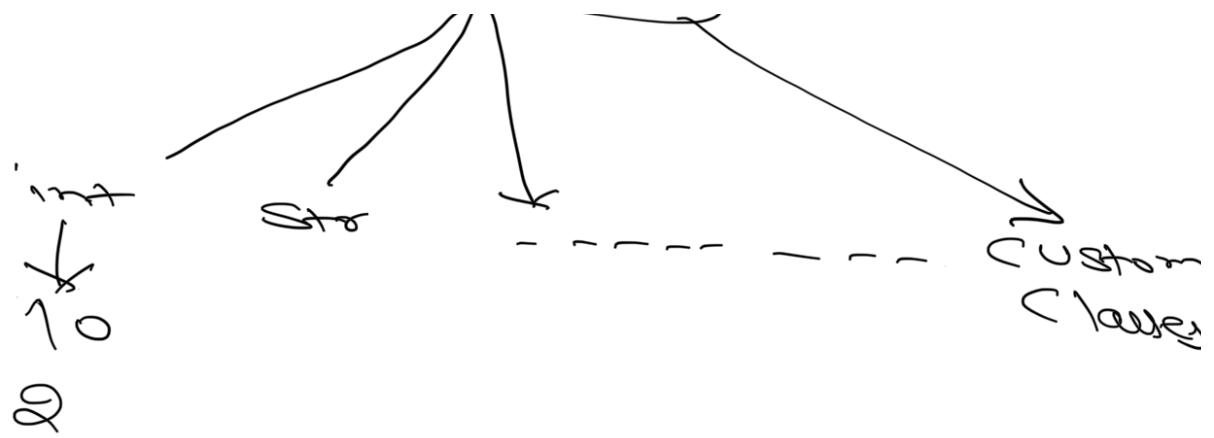
Interpreter      vs      Compiler

11.12

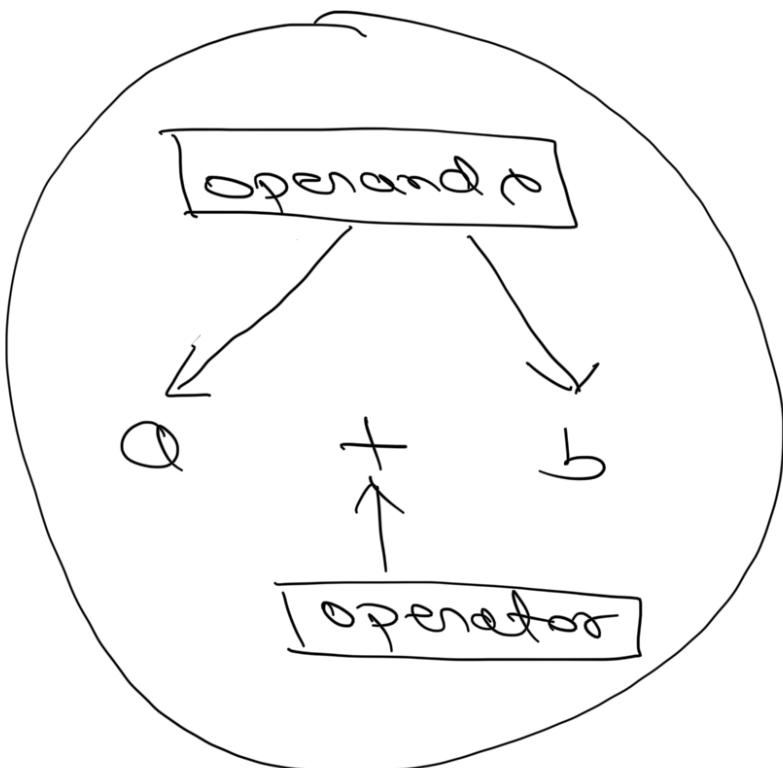
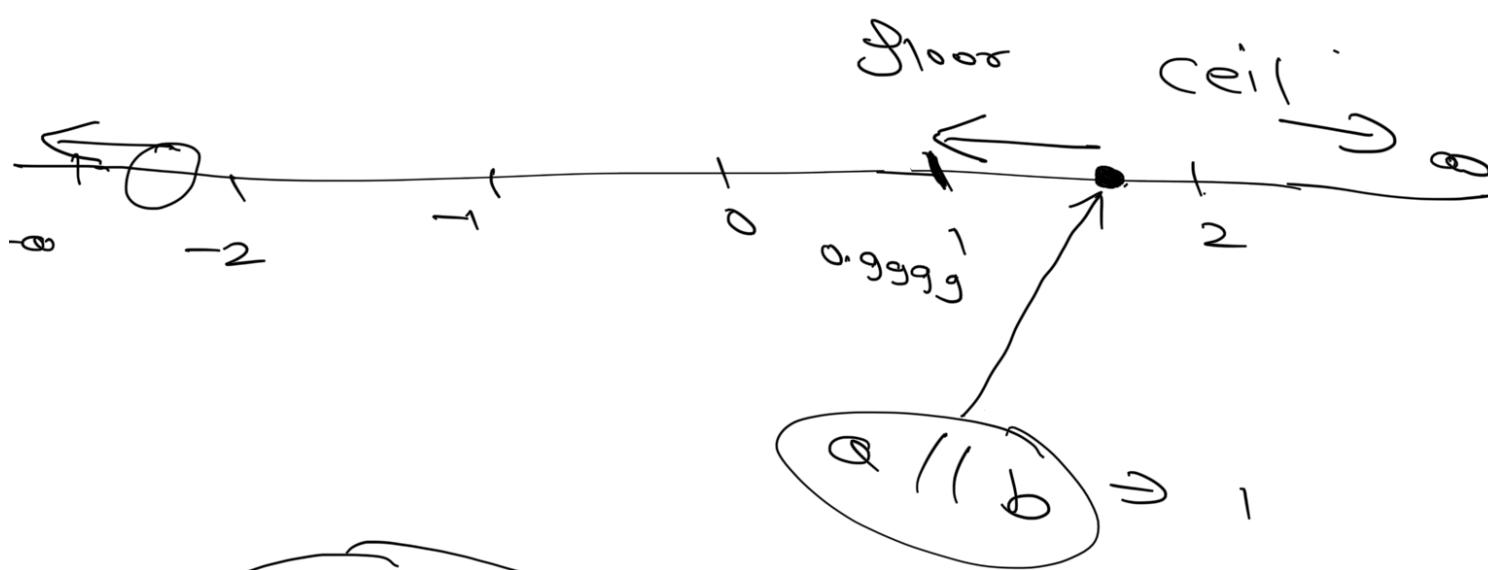


Everything is Python  
is an  
Object

Object



Float Division



## Identifier

- ⇒ name that we give variable
- ⇒ Rules
  - ↓ It should start with alpha-  
bet or `_`,
  - ↓ It can contain alpha-  
numerics or `_`,

Prefix ⇒ alpha or `_`,

Suffix ⇒ num or `_`,

Mutable

vs immutable

Mutable

↳ You can change the

Value

Immutables



You can not change

Mutables in Python

list

set

dictionary

Immutables in Python

int

str

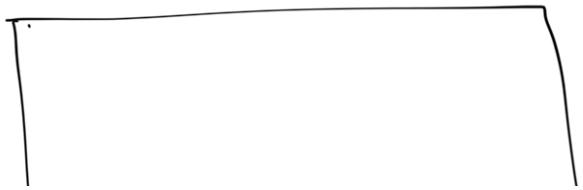
boolean

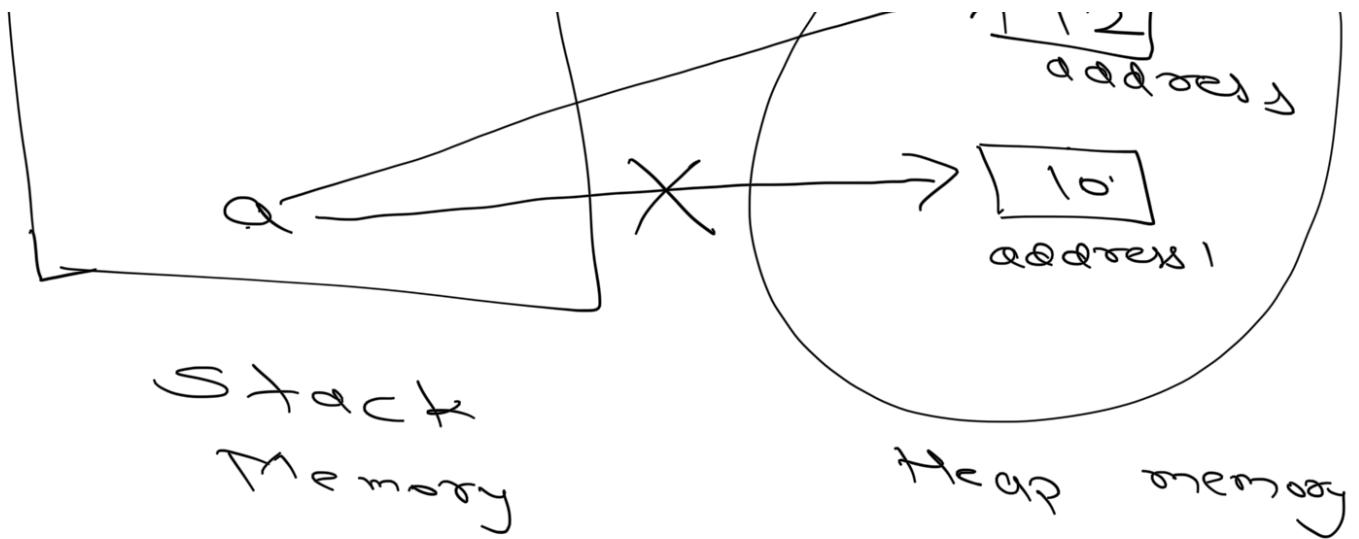
complex

float

Tuple

memory allocation





Code - py

```

 $q = 10$            ← line 1
 $\Rightarrow q = q + 2$  ← line 2
  
```

### Memory Management

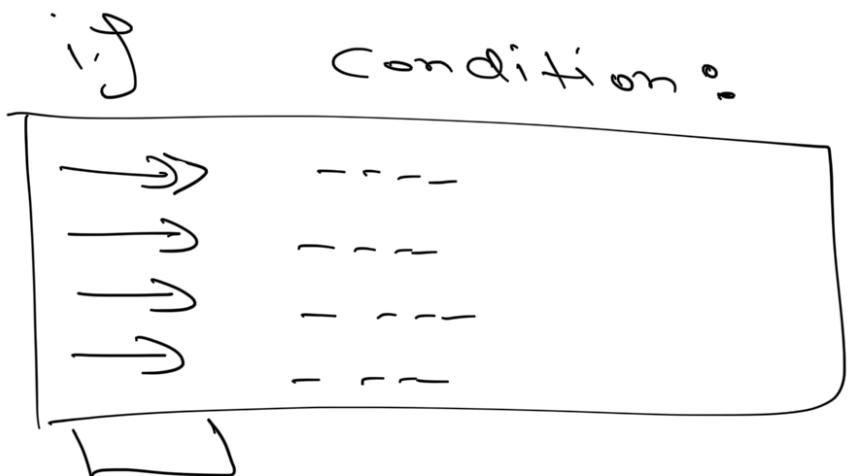
☞ GC  $\Rightarrow$  Garbage Collector

Object	Var Count
10	0
q	-

← delete this  
and Reclaim  
memory

)

## Control Statement



inside  
if block

• —VVV  
• |||||

Uniform  
Space

