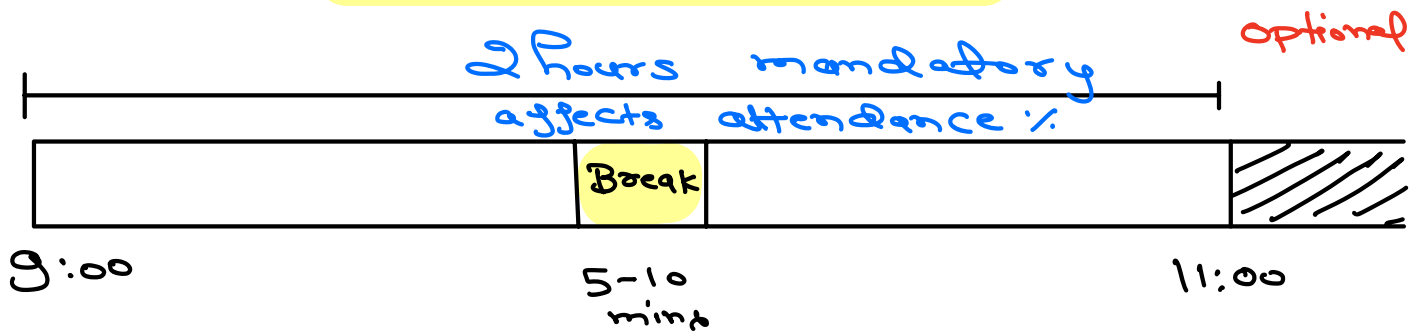


# Advance Python Syllabus

Part 1
Python Refresher
⇒ 1
⇒ 2
⇒ 3

Part 2
⇒ Time and Space Complexity
⇒ OOP 1 and 2
⇒ Functional Programming 1 and 2
⇒ Exception Handling
⇒ File Handling

## Class Structure



## To - do

- Assignments (V important)
- Homework (optional)
- Extra Questions (optional)

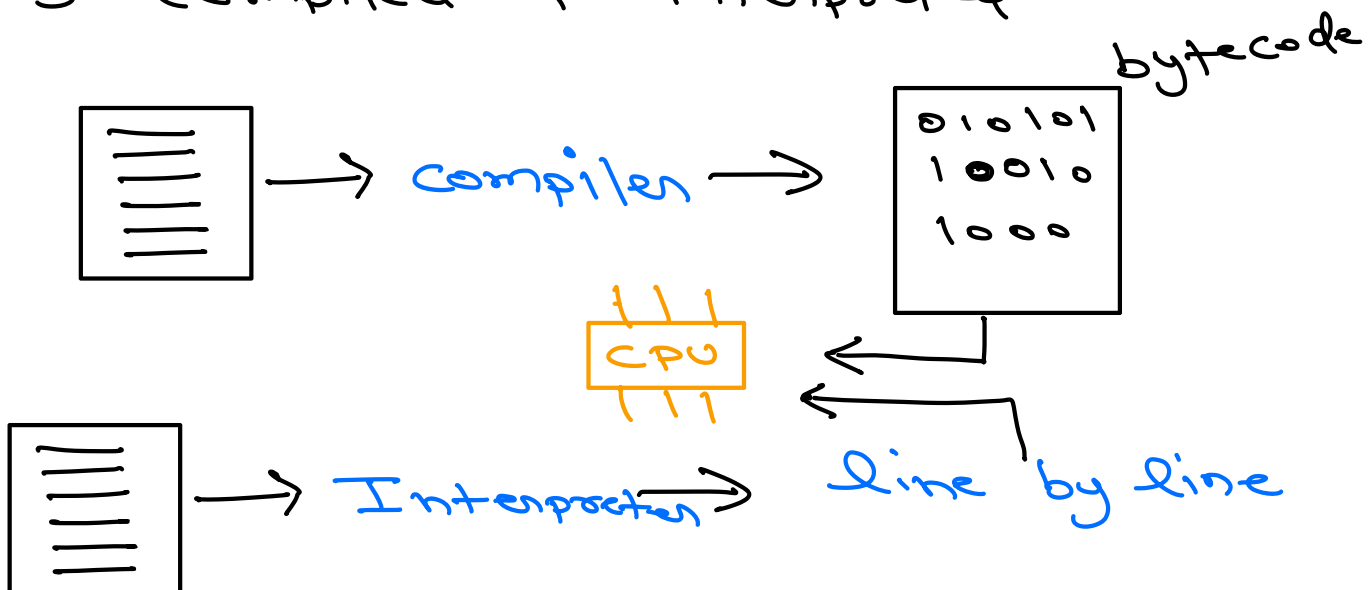
\* After Every 6 session we will have a problem solving optional session to discuss all queries

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

\* PSP = Problem Solving %

• pyc

➤ Compiled + interpreted



# ~~Primitive Data types~~

Object  $\Rightarrow$  FCC

str int float bool None Complex

1) First Class Citizen

- $\Rightarrow$  Everything in python is object with equal rights
- $\Rightarrow$  We can pass them to functions as argument, return as output

Object  
FCC

float bool None Complex Functions Class



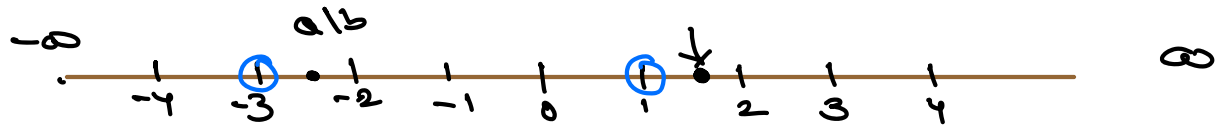
HOF

Decorator

2) Everything in python is instance of object class

instance . function  $\leftarrow$  Method

$a \setminus b$  vs  $a // b$



## Mutable vs immutable

List	Str
Set	int
Dictionary	float
	bool
	Tuple
	etc

⇒ Mutable when updated does not change ⇒ Memory locations stay same

⇒ Immutable when updated changes ⇒ Memory location changes as well