Advance Python Syllabus

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Part 1

Python Refresher

→ 1

→ 2

→ 3

Part 2

→ Time and Space Complexity

→ OOP 1 and 2

→ Functional Programing 1 and 2

→ Exception handling

→ File handling

Class Structure

2 hours mandatory
affects attendance %

optional

| | Break | | |

9:00   5-10 mins   11:00
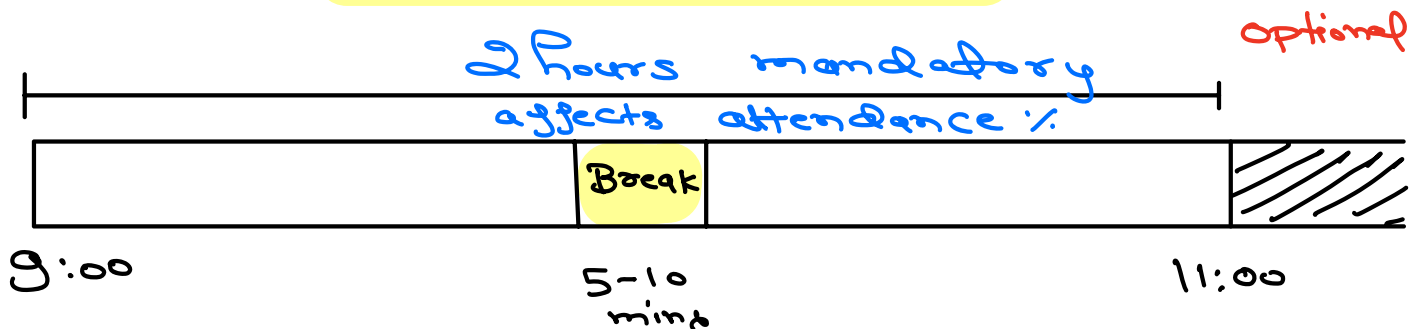
To - do

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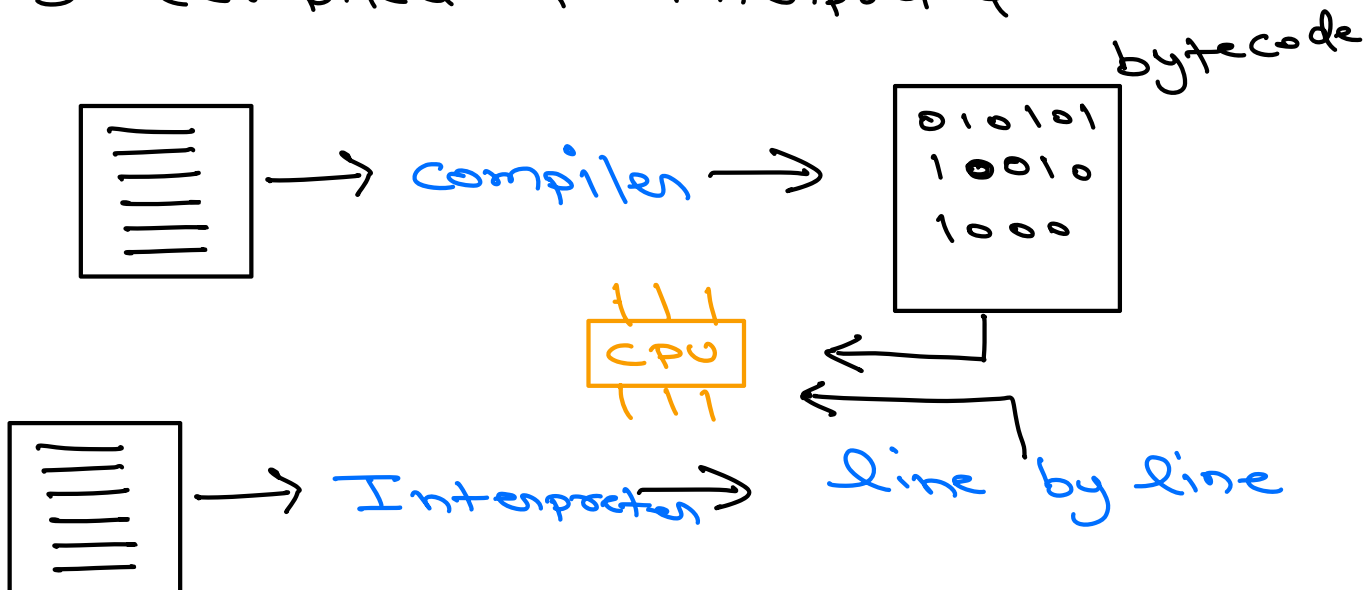- Extra Questions (optional)

* 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 hiring managers along with attendance %

* PSP = Problem Solving %

.pyc

→ Compiled + interpreted

Primitive Data types

Object ⟹ FCC

str int float bool None Complex

→ First Class Citizen

→ Everything in python is object with equal rights

→ We can pass them to functions as argument, return as Output
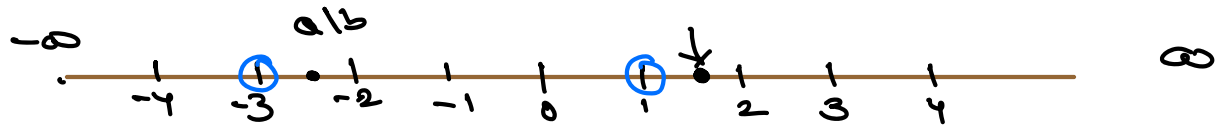
Object
FCC

float bool None Complex Functions Class
↓
HOF
Decorator

→ Everything in python is **instance** of object Class

instance . function ← Method

a \ b   vs   a // b

-∞

a\b

-4 -3 -2 -1 0 1 2 3 4

∞

Mutable   vs   immutable

List   Str

Set   int

Dictionary   float

                bool

                tuple

                etc

① Mutable when updated does not change ⇒ Memory locations stay same

② Immutable when updated changes ⇒ Memory location changes as well