PYTHON REFRESHER 1

1) Python Refresher 1, 2, 3

2) DSA
   - Searching
   - Time Complexity
   - Sorting
   - Recursion
   - Addt^n Topics (Hashing)

   } 1 Month

3) Advance Python
   - OOP
   - Functional programming
   - Exception Handling
   - Modules
   - Additn topics
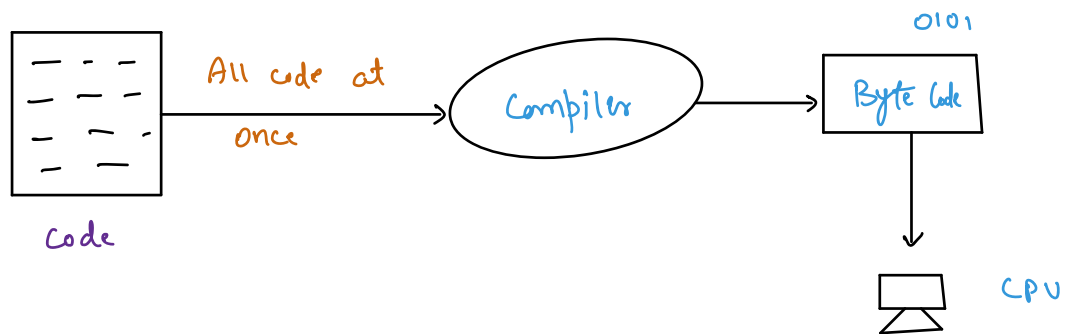
   } 2nd Month

4) Mathematical Topics
   - Combinatorics
   - Co-ordinate Geometry
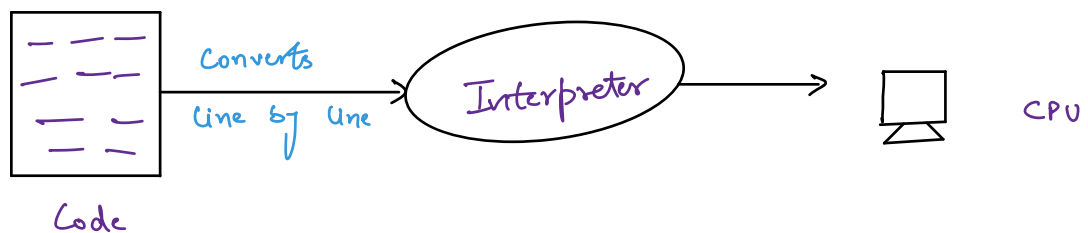   - Calculus

*   Common Core (Maths, SQL etc)

★   Compiler v/s Interpreter :

Code   → All code at once → Compiler → 0101 Byte Code → CPU

Compiler   Ex: C, C++, Java

* Interpreter :   Line by line

Code → Converts line by line → Interpreter → CPU

Ex: Python, JS etc.

* Both compiler and interpreter converts the code into machine language.

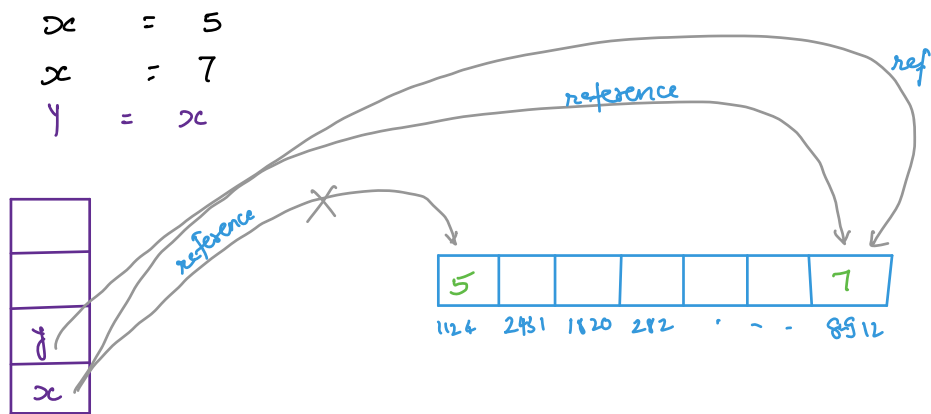* FCC : First Class Citizens :

  Humans :   Rahul
             Amit Ji

  Birds :   Pigeon
             Parrot
             Peacock

* Every object is FCC

  $x = 1$
  $y = 2$
  $z = $ "Rahul"

* In python everything is considered as an object.

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* Mutable vs Immutable

$x = 5$

$x = 7$

$y = x$

reference

reference

ref

y
x

5						7

1124 2451 1820 282 ' ~ - 8512

* In case of Integers when we change value it gets changed at diff. memory location.

⇒ This property is known as Immutable