Data Structures
→ Array
Linked List
Stack
Queue
Tree & many more

Divide & conquer

Dynamic Programming

Algorithms

Greedy Algorithms

↳ Logic building

Sequence of steps to solve any particular problem

Python
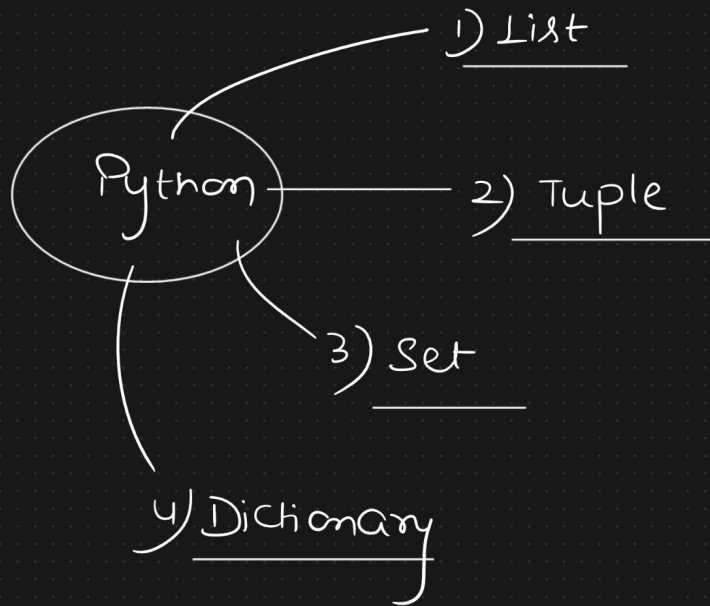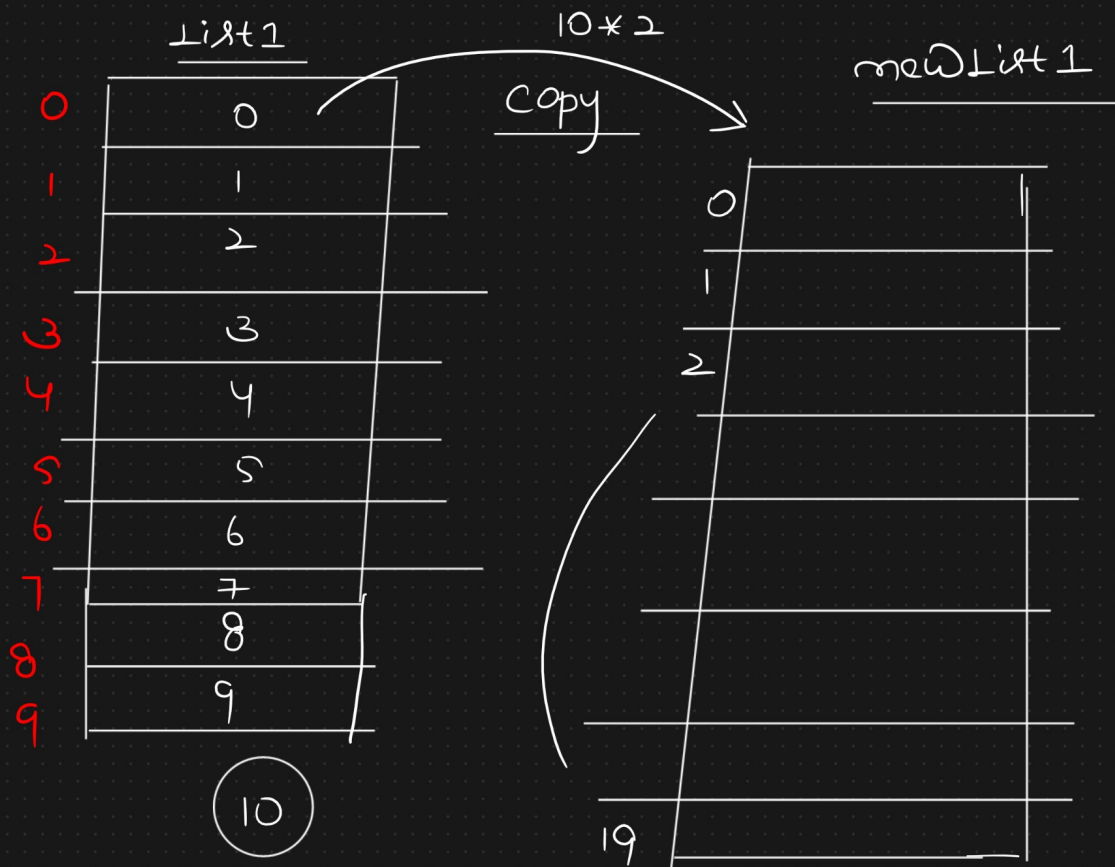1) List
2) Tuple
3) Set
4) Dictionary

List → [   ]

↳ Store multiple items of different type

↳ Random access

Dynamic List

List1   10*2   newList1

Copy

0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

(10)

newList1

0	
1	
2	
19	

→ Change

Mutable

List1 = [1, 2, 3, 4]

[1, 3, 4]

→ Machine Learning ⎴ Dataset

⎣ CSV files

Data Storage → in the form of Lists

Tuple

└ ( )

└ Not changeable/immutable

└ Tuple is faster than
the lists

lookup/search — O(1) — key - index number

Set — & }

└ Not ordered

* Does not allow duplicates

(Hashing)

Dictionary — & }

└ Key : value pair

└ Key — Does not allow
duplicate keys

└ Mutable

└ JSON — & }

(String) — Research work

Data Structure in Python

└ comment

Short & crisps