Data Structure

There are two type of data structure:



1. Linear data structure
2. Non-Linear data structure

1.Linear Data structure: 2.Non-linear data

* Array Binary tree
* Linked list Heap
* Stack Hash table
* Queue Graph
* Matrix

Python data structure

* List
* Tuple
* Dictionary
* Set

List:

Closed in [, , ]

Heterogenous data

Mutable data structure(data once enter is may change)

Code:

List = [1, 2, 3, "Hey",5]  
print(List)

From starting the index is 0,1,2,3

From ending the index is negative -3,-2,-1

Tuple:

Closed in (, , )

The collection of python objects just like list and all

Immutable data structure(data once enter is may not change)

Code:

tuple = (1,2,3,4,"helllo","morning")  
print(tuple)

Dictionary:

Closed in the {, , ,}

Consist of key value pair

Dict = {1:"hey",2: 134}  
print(Dict)

Set:

Collection of unorder but unique

Mutable data structure