List Part 1



Mohammad Tasin (Tasin Coder)

Agenda

- List
- How to create list object?
- Built in methods
- How to access list element?
- Concept of Negative index
- How to add element in the list?
- Packing and Unpacking
- How to delete element in the list?
- How to edit an element of the list

list

- What is list?
 - list is a class
 - list is an iterable sequence
 - list is mutable(changeable)
 - list is growable
 - list can store heterogeneous data
 - list elements are indexed

How to create list object?

```
11 = [] # create Empty object of list
12 = [10,20,30,40,50]
13 = list() # create Empty object of list
```

Built in methods

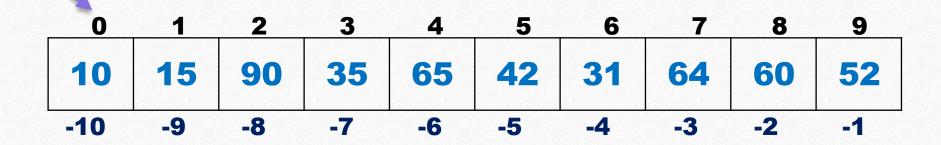
- 1. $len() \rightarrow returns length of specified iterable$
- 2. $min() \rightarrow returns min value element$
- 3. max() → returns max value element
- 4. sum() → returns sum of elements
- 5. $sorted() \rightarrow returns a sorted list of elements$

How to access list element?

```
12 = [10, 20, 30, 40, 50]
14 = [50, 84, 10, 46, 90, 20, 15]
15 = ['Hello', 'Tasin', 'Coder', "Hi", 12, 54]
print(12[2])
print(12,14,15,sep='\n')
for _ in 15:
    print(_)
```

Concept of Negative index





Negative

How to add element in the list?

There are tow standard ways to add elements in the list

- I. append()
- II. insert() ~

Attributes

- Class is a group of variables and functions
- Functions are called attributes

Packing and Unpacking

 Unpacking:- Number of variables in the left hand side must be same as the number of elements in the list.

