**Built in data types:**

List, tuple, set, dictionary

1. **List:**

list is used to store the multiple values.

List items: list items are ordered, changeable, and duplicates are allowed.

* Ordered: ordered means having specific order that order will not change if we add element. The newest element will be placed at the end.
* Changeable: changeable means the list are mutable that mens we can add delete replace the element in the list.
* Allow duplicates: means duplicate elements are allowed in the list.
* List can contain different types of data types.

1. **Tuple:**

Tuples are immutable(unchangeable), ordered, duplicates are allowed.

1. **Set:**

Sets are changeable, unordered, no duplicates allowed.

Frozen sets are unchangeable.

1. **Dictionary:**

Dictionary is ordered changeable but no duplicates are allowed.

**Operation on list:**

* **Access list items:**

To access list items in mylst

1. Mylst[2:4] #item at the position 3rd and 4th will be printed as the list index is starts from 0 (4 means 5th item will not be included
2. Mylst[2:] #items from 3rd position to the last item will be printed.
3. Mylst[:4] #items from start to 5th position will be printed.
4. To search element in a list

If “mango” in mylst:

Print(“yes”)

* **Change list-item values:**

mylst=["apple","banana", "cherry","orange","mango","kiwi","watermelon"]

mylst[1]="guava"#replacing item at 2nd place

print(mylst)

mylst[1:3]=["blackcurrent","jamun"]#replacing item at 2nd and 3rd position.

print(mylst)

mylst[2:4]=["grapes"]#replacing items at 3 and 4 with one value only so total items will be reduced by 1.

print(mylst)

#insert item

#without replacing value we can insert a value.

mylst.insert(3,"chiku")

print(mylst)

* **Add list items:**
* Append():

Adding element at last:

Lst.append(“mango”)

* Inserting element at any position

Lst.insert(2,“orange”)#orange will be inserted at 3rd position.

* Extend list :

Suppose two lists are there l1,l2

L1.extend(l2)#adding list 12 in l1, l2 can be any leteral.

* **Remove list items:**
* Remove specific item:

Lst.remove(“banana”) #if you have multiple values still it will remove the first value from starting index only.

* Removed item according to its index:

Lst.pop() #it will remove last item.

Lst.pop(1) # will remove item at 0th index.

* Clear the list:

Lst.clear() #It will clear the list.