## Built-in list functions

| Function | Description | Example |
|---|---|---|
| len(list) | Returns total no of items in the list | lst=[10,20,30,40]<br>print(len(lst))<br>4 |
| max(list) | Returns the item with largest value in the list | my_list = [5, 2, 8, 1, 9, 3]<br>largest = max(my_list)<br>print(largest)<br># Output: 9 |
| min(list) | Returns the item with smallest value in the list | my_list = [5, 2, 8, 1, 9, 3]<br>smallest = min(my_list)<br>print(smallest)<br># Output: 1 |
| list(seq) | Converts a tuple or string into a list | my_tuple = (1, 2, 3)<br>my_list = list(my_tuple)<br>print(my_list) # Output: [1, 2, 3]<br><br>my_string = "hello"<br>my_list = list(my_string)<br>print(my_list)<br># Output: ['h', 'e', 'l', 'l', 'o'] |
| sum(list) | Adds all the numeric values present in the list | my_list = [1, 2, 3, 4, 5]<br>total = sum(my_list)<br>print(total)<br># Output: 15 |

**List Methods**

| Method | Description | Example |
|---|---|---|
| append() | Adds an element at the end of the list | >>>flower=[‘rose’,’lily’,’lotus’]<br>>>>flower.append(‘jasmine’)<br>>>>flower<br>[‘rose’, ‘lily’, ‘lotus’, ‘jasmine’] |
| index() | Returns the index of the first element with the specified value | >>>flower.index(‘lily’)<br>1 |

| | | |
|---|---|---|
| insert() | Adds an element at the specified position | >>>flower.insert(2,'sunflower')<br>>>>flower<br>['rose', 'lily', 'sunflower', 'lotus', 'jasmine'] |
| sort() | Sorts the list | >>>flower.sort()<br>>>>flower<br>['jasmine', 'lily', 'lotus', 'rose', 'sunflower'] |
| remove() | Removes the item with the specified value | >>>flower.remove('lotus')<br>>>>flower<br>['jasmine', 'lily', 'rose', 'sunflower'] |
| reverse() | Reverses the order of the list | >>>flower.reverse()<br>>>>flower<br>['sunflower', 'rose', 'lily', 'jasmine'] |
| pop() | Removes the element at the specified position or the last item if the index is not specified | >>>flower.pop(1)<br>'rose'<br>>>>flower<br>['sunflower', 'lily', 'jasmine'] |
| clear() | Empties the list or Removes all the elements from the list | |
| count() | Returns the number of elements with the specified value | >>>l1=[1,2,3,1,4,5,1,6,1,8]<br>>>>l1.count(1)<br>4 |
| extend() | Add the elements of a list (or any iterable), to the end of the current list | >>>lst=[10,20,30,40]<br>>>>lst1=[50,60,70,80]<br>>>>lst.extend(lst1)<br>>>>lst<br>[10, 20, 30, 40, 50, 60, 70, 80] |
| copy() | Returns a copy of the list | >>>l1=['a','b','c','d','e']<br>>>>l2=l1.copy()<br>>>>l2<br>['a', 'b', 'c', 'd', 'e'] |
| del keyword | Removes the specified index<br>Or removes the complete list if the index is not specified | >>>l1=['a','b','c','d','e']<br>>>>del l1[1]<br>>>>l1<br>['a', 'c', 'd', 'e'] |