**List methods**

list=[1,2,3,4,5,'A','B',23,55,2.6,23+5j] # creates list

print(list)

print(type(list)) # print data type

print(list[3]) #4

print(id(list[3])) # prints location...139973768130408

print(len(list)) #11

print(list[-1]) # (23+5j)

print(list[len(list)-1]) #(23+5j)

print(list[3]) # 4

print(list[5]) # A

print(list[-5]) # B

print(list[-1]) #(23+5j)

print(id(list[-1])) #139714771708272

list[-1]="Python"

print(list[-1]) # Python

print(id(list[-1])) #139714771708272 ...id remains same..i.e. list is mutable

list.append("222") #Adds an element at the end of the list

print(list) # [1, 2, 3, 4, 5, 'A', 'B', 23, 55, 2.6, (23+5j), '222']

list.insert(3, 333)

print(list) #[1, 2, 3, 333, 4, 5, 'A', 'B', 23, 55, 2.6, (23+5j), '222']

print(list.clear()) # Removes all the elements from the list.....O/p-None

list=[1,2,3,4,5,'A','B',23,55,2.6,23+5j] # creates list

print(list.copy()) #Returns a copy of the list

list=[1,2,3,2,2,'A',2,23,55,2,23+5j] # creates list

print(list.count(2)) #Returns the number of elements with the specified value --- 5

list1=[111,22,333,233,44]

list.extend(list1) #Add the elements of a list (or any iterable), to the end of the current list

print(list) # [1, 2, 3, 2, 2, 'A', 2, 23, 55, 2, (23+5j), 111, 22, 333, 233, 44]

print(list.index(2)) #1

print(list.pop()) #Removes the element at the specified position......44

print(list.pop(5)) #A....index is given

print(list)

list.remove(2) #Removes the first item with the specified value

print(list) #[1, 3, 2, 2, 2, 23, 55, 2, (23+5j), 111, 22, 333, 233]

list.reverse()

print(list) # [233, 333, 22, 111, (23+5j), 2, 55, 23, 2, 2, 2, 3, 1]

list=[1223,43,224423,788778,445]

list.sort()

print(list) #[43, 445, 1223, 224423, 788778]

**Output:**

[1, 2, 3, 4, 5, 'A', 'B', 23, 55, 2.6, (23+5j)]

<class 'list'>

4

140678714834792

11

(23+5j)

(23+5j)

4

A

B

(23+5j)

140678703705616

Python

140678714269952

[1, 2, 3, 4, 5, 'A', 'B', 23, 55, 2.6, 'Python', '222']

[1, 2, 3, 333, 4, 5, 'A', 'B', 23, 55, 2.6, 'Python', '222']

None

[1, 2, 3, 4, 5, 'A', 'B', 23, 55, 2.6, (23+5j)]

5

[1, 2, 3, 2, 2, 'A', 2, 23, 55, 2, (23+5j), 111, 22, 333, 233, 44]

1

44

A

[1, 2, 3, 2, 2, 2, 23, 55, 2, (23+5j), 111, 22, 333, 233]

[1, 3, 2, 2, 2, 23, 55, 2, (23+5j), 111, 22, 333, 233]

[233, 333, 22, 111, (23+5j), 2, 55, 23, 2, 2, 2, 3, 1]

[43, 445, 1223, 224423, 788778]

>