

character-string,list,tuple

list indexing and slicing

list methods----->>>>>append,extend,insert,remove,pop,clear index, count, copy,len, max
,min,sort, reverse

```
l1=[1,2,3,'apple',6.7]
```

```
l1.append(5)          #inserts element at the last point(1 element)
```

```
l1
```

```
→ [1, 2, 3, 'apple', 6.7, 5]
```

```
l1.extend([11,12,13,14])          #inserts a series of elements at the las
l1
```

```
→ [1, 2, 3, 'apple', 6.7, 5, 11, 12, 13, 14]
```

```
l1.insert(4,'school')          #2 arguments----->>>>>1st index, 2nd el
l1
```

```
→ [1, 2, 3, 'apple', 'school', 6.7, 5, 11, 12, 13, 14]
```

Start coding or [generate](#) with AI.

```
→ -----
ValueError                                Traceback (most recent call last)
<ipython-input-12-3e3ed8e2e8d7> in <cell line: 1>()
----> 1 l1.remove('school')

ValueError: list.remove(x): x not in list
```

```
l1          #argument passed----->>>>>the element
```

```
→ [1, 2, 3, 'apple', 6.7, 5, 11, 12, 13, 14]
```

```
l1.pop(3)          #argument passed----->>>>>the index
```

```
→ 'apple'
```

```
l1
```

```
➞ [1, 2, 3, 6.7, 5, 11, 12, 13, 14]
```

```
l2=[3,4,5,6,7,8,9,0,'apple','join',3.4,5.6]
```

```
#append
```

```
#remove      #pop
```

```
#extend
```

```
#insert
```

```
l1
```

```
➞ [1, 2, 3, 6.7, 5, 11, 12, 13, 14]
```

```
l1.clear() #clears all the elements
```

```
l1
```

```
➞ []
```

```
l3=[1,2,3,4,4,4,5,4,5,6,5,4,3,2,2]
```

```
l3.count(4) #counts the number of occ
```

```
➞ 5
```

```
l3.index(4,5,11) #first occurrence of the a  
#element,[start],[end]
```

```
➞ 5
```

```
l3.remove()
```

```
➞ -----  
TypeError                                Traceback (most recent call last)  
<ipython-input-22-951a78b31cb7> in <cell line: 1>()  
----> 1 l3.remove()  
  
TypeError: list.remove() takes exactly one argument (0 given)
```

```
l3.pop()
```

```
➞ 2
```

```
l3
```

```
➞ [1, 2, 3, 4, 4, 4, 5, 4, 5, 6, 5, 4, 3, 2]
```

```
l4=l3.copy()
```

```
l4
```

```
[1, 2, 3, 4, 4, 4, 5, 4, 5, 6, 5, 4, 3, 2]
```

```
l4.sort()
```

```
l4
```

```
[1, 2, 2, 3, 3, 4, 4, 4, 4, 4, 5, 5, 5, 6]
```

```
l4.sort(reverse=True)
```

```
l4
```

```
[6, 5, 5, 5, 4, 4, 4, 4, 4, 3, 3, 2, 2, 1]
```

```
l5=[1,2,3,4,'apple','join']
```

```
l5.sort()
```

```
-----  
TypeError                                Traceback (most recent call last)  
<ipython-input-30-efe9a09e3590> in <cell line: 2>()  
      1 l5=[1,2,3,4,'apple','join']  
----> 2 l5.sort()  
  
TypeError: '<' not supported between instances of 'str' and 'int'
```

```
l6=['apple','banana','dog','cat']
```

```
l6.sort()
```

```
l6
```

```
['apple', 'banana', 'cat', 'dog']
```

```
l7=[1,2,2.7,9,2,1.6]
```


```
l7.sort()
```

```
l7
```

```
[1, 1.6, 2, 2, 2.7, 9]
```

```
l7.reverse()
```


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 [9, 2.7, 2, 2, 1.6, 1]

```
l8=[4,3,2,1,7,3,2]
```

```
l8.reverse()
```

l8

 [2, 3, 7, 1, 2, 3, 4]

```
len(l8)
```

 7

```
min(l8)
```

 1

```
max(l8)
```

 7