

Lists are ordered sequences that can hold a variety of object types.

they use [] brackets and commas to separate objects in the list.

```
In [1]: my_list = [1,2,3]

In [2]: my_lsit = ['STRING',100,23.2]

In [3]: len(my_list)

Out[3]: 3

In [4]: mylist = ['one','two','three']

In [5]: mylist[0]

Out[5]: 'one'

In [6]: mylist[1:]

Out[6]: ['two', 'three']

In [7]: mylist

Out[7]: ['one', 'two', 'three']

In [8]: another_list = ['four','five']

In [9]: mylist + another_list

Out[9]: ['one', 'two', 'three', 'four', 'five']

In [10]: mylist

Out[10]: ['one', 'two', 'three']

In [11]: another_list

Out[11]: ['four', 'five']

In [14]: new_list = mylist + another_list

In [15]: new_list

Out[15]: ['one', 'two', 'three', 'four', 'five']

In [16]: new_list[0] = 'ONE ALL CAPS'

In [17]: new_list

Out[17]: ['ONE ALL CAPS', 'two', 'three', 'four', 'five']

In [18]: new_list.append('six')

In [19]: new_list

Out[19]: ['ONE ALL CAPS', 'two', 'three', 'four', 'five', 'six']

In [20]: new_list.pop()

Out[20]: 'six'

In [21]: new_list

Out[21]: ['ONE ALL CAPS', 'two', 'three', 'four', 'five']

In [22]: popped_items = new_list.pop()

In [23]: popped_items

Out[23]: 'five'

In [24]: new_list

Out[24]: ['ONE ALL CAPS', 'two', 'three', 'four']

In [25]: new_list.pop()

Out[25]: 'four'

In [27]: new_list = ['a','e','x','b','c']
num_list = [4,1,8,3]

In [28]: new_list.sort()

In [29]: new_list

Out[29]: ['a', 'b', 'c', 'e', 'x']

In [30]: my_sorted_list = new_list.sort()

In [31]: type(my_sorted_list)

Out[31]: NoneType

In [32]: None

In [33]: new_list.sort()
my_sorted_list = new_list

In [34]: my_sorted_list

Out[34]: ['a', 'b', 'c', 'e', 'x']

In [35]: num_list

Out[35]: [4, 1, 8, 3]

In [36]: num_list.sort()

In [37]: num_list

Out[37]: [1, 3, 4, 8]

In [38]: num_list.reverse()

In [39]: num_list

Out[39]: [8, 4, 3, 1]

In [ ]:
```