List

```
In [19]: empty_list = []
         int_list = [1,2,3,4,5]
         float_list = [1.0, 2.0, 3.0, 4.0, 5.0]
         string_list = ["Many words", "impoverished meaning"]
         mixed_list = [1, 2.0, "Mix it up"]
         print(empty_list)
         print(int_list)
         print(float list)
         print(string list)
         print(mixed_list)
         []
         [1, 2, 3, 4, 5]
         [1.0, 2.0, 3.0, 4.0, 5.0]
         ['Many words', 'impoverished meaning']
         [1, 2.0, 'Mix it up']
 In [2]: type(mixed list)
Out[2]: list
 In [3]: mixed_list[0], type(mixed_list[0])
 Out[3]: (1, int)
 In [4]:
         mixed list[1], type(mixed list[1])
 Out[4]: (2.0, float)
 In [5]: mixed_list[2], type(mixed_list[2])
 Out[5]: ('Mix it up', str)
```

Concatenate list

```
In [22]: list1 = [4,6,32,6,7,98]
    list2 = [1,6,3,7,89,0]
    join_lists = list1 + list2
    list1
Out[22]: [4, 6, 32, 6, 7, 98]
In [7]: join_lists
Out[7]: [4, 6, 32, 6, 7, 98, 1, 6, 3, 7, 89, 0]
```

```
In [8]: str1 = "Some string"
    str2 = "Another string to concatenate with str1"
        join_strings = str1 + str2
        join_strings
Out[8]: 'Some stringAnother string to concatenate with str1'
```

List Slice

```
In [9]: join_lists
Out[9]: [4, 6, 32, 6, 7, 98, 1, 6, 3, 7, 89, 0]
In [10]:
         join_lists[:6]
Out[10]: [4, 6, 32, 6, 7, 98]
In [11]: join_lists[0:5]
Out[11]: [4, 6, 32, 6, 7]
In [12]: join_strings[:6]
Out[12]: 'Some s'
In [13]: join strings[7:]
Out[13]: 'ringAnother string to concatenate with str1'
         If you call lst[-1], it will access the last element in the list.
In [14]: join_lists[-1], join_strings[-1]
Out[14]: (0, '1')
In [15]: |join_lists[:-1], join_strings[:-1]
Out[15]: ([4, 6, 32, 6, 7, 98, 1, 6, 3, 7, 89],
           'Some stringAnother string to concatenate with str')
In [16]: |join_lists[:-5], join_strings[:-5]
Out[16]: ([4, 6, 32, 6, 7, 98, 1], 'Some stringAnother string to concatenate with')
```