collections

June 25, 2021

```
[1]: t = 1,2,3,4,6.7,5.6,89
      print(type(t))
     <class 'tuple'>
 [2]: t
 [2]: (1, 2, 3, 4, 6.7, 5.6, 89)
 [3]: t[1]
 [3]: 2
 [4]: t[0]
 [4]: 1
 [5]: t[len(t)-1]
 [5]: 89
 [6]: t[-1]
 [6]: 89
 [7]: t
 [7]: (1, 2, 3, 4, 6.7, 5.6, 89)
 [8]: t[0]
 [8]: 1
 [9]: t[1]
[9]: 2
[10]: t[5]
```

```
[10]: 5.6
[11]: len(t)
[11]: 7
[12]: 1
                                                 Traceback (most recent call last)
       <ipython-input-12-cde25b5e10ad> in <module>
       ----> 1 l
      NameError: name 'l' is not defined
[13]: 1 = [3,4,5,6,5.6,6.7, "Hello", (3,4), [6,7], 45]
[14]: 1[0]
[14]: 3
[15]: 1[1]
[15]: 4
[16]: 1[-1]
[16]: 45
[17]: 1
[17]: [3, 4, 5, 6, 5.6, 6.7, 'Hello', (3, 4), [6, 7], 45]
[18]: 1[6]
[18]: 'Hello'
[19]: s = 1[6]
      s[0]
[19]: 'H'
[20]: 1[6][0]
[20]: 'H'
```

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[21]: 1[6][2]
[21]: '1'
[22]: 1[7]
[22]: (3, 4)
[23]: 1[7][0]
[23]: 3
[24]: 1[8]
[24]: [6, 7]
[25]: 1[8][-1]
[25]: 7
[26]: s = "Hello"
      s[0]
[26]: 'H'
[27]: s[-1]
[27]: 'o'
[28]: d = {'a':12, 'b':18, 'c':[2,3,4,5], 'd':(4,5), 'f':{'t':45}}
[29]: d['a']
[29]: 12
[30]: d['c']
[30]: [2, 3, 4, 5]
[31]: d['c'][3]
[31]: 5
[32]: d
[32]: {'a': 12, 'b': 18, 'c': [2, 3, 4, 5], 'd': (4, 5), 'f': {'t': 45}}
```

[]:[