

Tuple Exercise

March 6, 2020

```
[2]: t1 = 1,2,3
      t2 = (1,2,3)
      print(t1)
      print(type(t1))
      print(t2)
      print(type(t2))
```

```
(1, 2, 3)
<class 'tuple'>
(1, 2, 3)
<class 'tuple'>
```

```
[3]: t3 = 'Tanner','Tarra', 'Trevor'
      print(t3)
      print(type(t3))
```

```
('Tanner', 'Tarra', 'Trevor')
<class 'tuple'>
```

```
[7]: x = t1[0]
      y = t2[-3]
      z= x + y
      print(z)
```

```
2
```

```
[8]: print(max(t1))
```

```
3
```

```
[10]: t1*3
       print(t1*3)
```

```
(1, 2, 3, 1, 2, 3, 1, 2, 3)
```

```
[20]: t4 = 'Amanda', 'Dan','Meloni'
       p = 2*(t3 +t4)
       print(p)
```

```
print(2*t3+t4)
print(t3+3*t4)
```

```
(('Tanner', 'Tarra', 'Trevor', 'Amanda', 'Dan', 'Meloni', 'Tanner', 'Tarra',
'Trevor', 'Amanda', 'Dan', 'Meloni')
('Tanner', 'Tarra', 'Trevor', 'Tanner', 'Tarra', 'Trevor', 'Amanda', 'Dan',
'Meloni')
('Tanner', 'Tarra', 'Trevor', 'Amanda', 'Dan', 'Meloni', 'Amanda', 'Dan',
'Meloni', 'Amanda', 'Dan', 'Meloni')
```

```
[21]: t1[0]=2
      #Wont work ever
```

```
TypeError                                Traceback (most recent call last)
<ipython-input-21-76219e57c6d2> in <module>
----> 1 t1[0]=2
```

```
TypeError: 'tuple' object does not support item assignment
```

```
[23]: #tuple with a list in it
list1 = [1,2,3]
list2 = [4,5,6]
t5 = list1, list2
print(t5)
list1.append(7)
print(t5)
```

([1, 2, 3], [4, 5, 6])
 ([1, 2, 3, 7], [4, 5, 6])

```
[28]: #tuple with a dictionary in it
t6 = {'hello':0, 'goodbye':1}
t7 = {'Tyler':2, 'Trevor':3}
t8 = t6, t7
print(t8)
t6['goodbye'] = 8
print(t8)
```

```
{'hello': 0, 'goodbye': 1}, {'Tyler': 2, 'Trevor': 3})
({'hello': 0, 'goodbye': 8}, {'Tyler': 2, 'Trevor': 3})
```

```
[36]: def tsort(t):
      t= 5,4
      a=12,11
      ta=t+a
      return ta
      r='', ''
      print(tsort(r))
```

(5, 4, 12, 11)

```
[46]: def tsort(t):
      l = list(t)
      l.sort()
      tout =tuple(l)
      return(tout)
      ta = 5,4,12,11
      tsort(ta)#make this work
```

[46]: (4, 5, 11, 12)

```
[45]: print(t1)
      first, second, third = t1
      print(first)
      print(second)
      print(third)
```

(1, 2, 3)

1
2
3

```
[54]: print(t1 == t2)
      print(t3>t4)
      print(t3<t4)
      print(t4<t3)\
      print(t1>=t2)
```

```
File "<ipython-input-54-eba98e946c83>", line 5
print(t1>=t2)
      ^
```

SyntaxError: invalid syntax

[0]:

[0]: