∨ TUPLES

```
t = ()
t = (1,2,3,4)
t1=(0.4,4.5,8.9)
t2=('one','two','three')
t3=('one',1,2,3,(50,100),1.45)
len(t3)
6
```

TUPLE INDEXING

```
t
(1, 2, 3, 4)

t[0]
1

t3[4][1]
100

t[-1]
```

TUPLE SLICING

```
t
(1, 2, 3, 4)

t = (1,2,32,3,4,5,5,5,5,58)

t[0:3] # items from 0 to 2
(1, 2, 32)

t[3:8]
(3, 4, 5, 5, 5)

t[:4] #elements from 0 to 3
(1, 2, 32, 3)

t[-4:] #last 4 elements
(5, 5, 5, 58)
```

```
t[-1] #last element
```

Remove and change ietms

LOOPING

V COUNTING

```
t.count(1)
```

Membership

```
1 in t
```

Index position

t

```
(1, 2, 3, 4, 5, 6, 7, 8, 9)
t.index(1)
```

∨ SORTING

```
t
(1, 2, 3, 4, 5, 6, 7, 8, 9)

t = (6,7,3,5,1,4,5,5,77,0)

t
(6, 7, 3, 5, 1, 4, 5, 5, 77, 0)

sorted(t)
[0, 1, 3, 4, 5, 5, 5, 6, 7, 77]
```