

Tuple Creation

```
In [3]: t1=(2,3,4,5,6,8)
        t1
```

```
Out[3]: (2, 3, 4, 5, 6, 8)
```

```
In [4]: type(t1)
```

```
Out[4]: tuple
```

```
In [5]: t2=("one","two","three")
        t2
```

```
Out[5]: ('one', 'two', 'three')
```

```
In [6]: t3=("hania",5,5.4,True)
        t3
```

```
Out[6]: ('hania', 5, 5.4, True)
```

```
In [7]: type(t3)
```

```
Out[7]: tuple
```

Tuple Indexing

```
In [8]: t2[0]
```

```
Out[8]: 'one'
```

```
In [10]: t2[0]="zero"
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[10], line 1
----> 1 t2[0]="zero"

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

Tuple Slicing

```
In [11]: t2
```

```
Out[11]: ('one', 'two', 'three')
```

```
In [15]: t2[1:3]
```

```
Out[15]: ('two', 'three')
```

```
In [17]: t2[2]
```

```
Out[17]: 'three'
```

```
In [18]: t2[-2]
```

```
Out[18]: 'two'
```

Remove & Change

```
In [19]: del t2[0]
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[19], line 1
----> 1 del t2[0]

TypeError: 'tuple' object doesn't support item deletion
```

```
In [21]: t3=("vizag",9,[1,4,5],6.54,True)
        t3
```

```
Out[21]: ('vizag', 9, [1, 4, 5], 6.54, True)
```

```
In [22]: t3[3]=5
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[22], line 1
----> 1 t3[3]=5

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

```
In [24]: del t3#delete entire tuple
        t3
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[24], line 1
----> 1 del t3
      2 t3

NameError: name 't3' is not defined
```

Loop through Tuple

```
In [25]: t2
```

```
Out[25]: ('one', 'two', 'three')
```

```
In [26]: for i in t2:
        print(i)
```

```
one
two
three
```

```
In [27]: for i in enumerate(t2):
        print(i)
```

```
(0, 'one')
(1, 'two')
(2, 'three')
```

Tuple Membership

```
In [28]: t2
```

```
Out[28]: ('one', 'two', 'three')
```

```
In [29]: "one" in t2
```

```
Out[29]: True
```

```
In [30]: if "two" in t2:
          print("two is in t2")
        else:
          print("two is not in t2")
```

```
two is in t2
```

Index Position

```
In [31]: t2[2]
```

```
Out[31]: 'three'
```

```
In [34]: t2("two")
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[34], line 1
----> 1 t2("two")

TypeError: 'tuple' object is not callable
```

```
In [35]: t2.index("two")
```

```
Out[35]: 1
```

Sorting

```
In [37]: t4=("soki",25,True,45,[1,7,67])
```

```
In [38]: t5=(3,5,2,19,6,0)
```

```
In [39]: sorted(t5)
```

```
Out[39]: [0, 2, 3, 5, 6, 19]
```

```
In [ ]:
```