

Tuple Eng

February 6, 2023

```
[1]: t = ()
```

```
[2]: type(t)
```

```
[2]: tuple
```

```
[3]: t1 = (1,2,3,4,45,45.45 , 45+7j , "sudh" , True)
```

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

```
[4]: tuple
```

```
[5]: l = [1,2,3,4]
```

```
[6]: type(l)
```

```
[6]: list
```

```
[7]: t1
```

```
[7]: (1, 2, 3, 4, 45, 45.45, (45+7j), 'sudh', True)
```

```
[8]: t1[0]
```

```
[8]: 1
```

```
[9]: t1[7]
```

```
[9]: 'sudh'
```

```
[10]: t1[::-1]
```

```
[10]: (True, 'sudh', (45+7j), 45.45, 45, 4, 3, 2, 1)
```

```
[11]: t1 = t1[::-1]
```

```
[12]: t1
```

[12]: (True, 'sudh', (45+7j), 45.45, 45, 4, 3, 2, 1)

[14]: t1[0:3]

[14]: (True, 'sudh', (45+7j))

[15]: t1

[15]: (True, 'sudh', (45+7j), 45.45, 45, 4, 3, 2, 1)

[16]: t1.count(4)

[16]: 1

[17]: t1.count("abc")

[17]: 0

[18]: t1.index(1)

[18]: 0

[19]: t1.index("sudh")

[19]: 1

[20]: t1

[20]: (True, 'sudh', (45+7j), 45.45, 45, 4, 3, 2, 1)

[21]: t1.count(True)

[21]: 2

[22]: t1.count(1)

[22]: 2

[24]: t1

[24]: (True, 'sudh', (45+7j), 45.45, 45, 4, 3, 2, 1)

[25]: 1

[25]: [1, 2, 3, 4]

[26]: t1[0]

[26]: True

“““Tuple are basically follows Immutability concepts where it is not going to allow to change any element at a particular index”“ ”

[27]: t1[0] = 345

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[27], line 1  
----> 1 t1[0] = 345  
  
TypeError: 'tuple' object does not support item assignment
```

[28]: 1

[28]: [1, 2, 3, 4]

[29]: l[0]

[29]: 1

[30]: l[0] = 100

[31]: 1

[31]: [100, 2, 3, 4]

[32]: t1

[32]: (True, 'sudh', (45+7j), 45.45, 45, 4, 3, 2, 1)

[35]: `for i in t1 :`
 `print(i , type(i))`

```
True <class 'bool'>  
sudh <class 'str'>  
(45+7j) <class 'complex'>  
45.45 <class 'float'>  
45 <class 'int'>  
4 <class 'int'>  
3 <class 'int'>  
2 <class 'int'>  
1 <class 'int'>
```

[36]: t2 = (1,2,3,3,4)

```
[37]: t2
```

```
[37]: (1, 2, 3, 3, 4)
```

```
[38]: t2 * 3
```

```
[38]: (1, 2, 3, 3, 4, 1, 2, 3, 3, 4, 1, 2, 3, 3, 4)
```

```
[39]: max(t2)
```

```
[39]: 4
```

```
[40]: min(t2)
```

```
[40]: 1
```

```
[41]: t1 = (1,2,32,4)
      t2 = (4,5,6,7,8)
```

```
[42]: t3 = (t1,t2)
```

```
[43]: t3
```

```
[43]: ((1, 2, 32, 4), (4, 5, 6, 7, 8))
```

```
[44]: t4 = ((1,2,3,4,5) , [1,3,5,6,7,8])
```

```
[45]: t4
```

```
[45]: ((1, 2, 3, 4, 5), [1, 3, 5, 6, 7, 8])
```

```
[46]: del t4
```

```
[47]: t4
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[47], line 1
----> 1 t4

NameError: name 't4' is not defined
```

```
[48]: t1
```

```
[48]: (1, 2, 32, 4)
```

```
[49]: len(t1)
```

```
[49]: 4
```

```
[50]: t1
```

```
[50]: (1, 2, 32, 4)
```

```
[51]: "sudh" in t1
```

```
[51]: False
```

```
[52]: 2 in t1
```

```
[52]: True
```

```
[ ]:
```