Tuple

March 15, 2025

Tuple

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

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

```
[7]: tuple
```

```
[8]: t1 = (1,2,3,4,5,6,7)
     t1
```

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

```
[9]: t2 = (1.5,2.5,3.5,4.5,5.5)
     t2
```

```
[9]: (1.5, 2.5, 3.5, 4.5, 5.5)
```

```
[10]: t3 = ("Mahesh Babu")
      t3
```

```
[10]: 'Mahesh Babu'
```

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

```
[11]: (1, 2, 3, (1, 2, 3), 4, 5, (4, 5), 6, 7)
```

```
[14]: t5 = (1,7.7,"Babu",True,2+1j)
      t5
```

```
[14]: (1, 7.7, 'Babu', True, (2+1j))
```

```
[15]: len(t5)
```

```
[15]: 5
```

```
[16]: print(t)
      print(t1)
```

```
print(t2)
print(t3)
print(t4)
print(t5)
```

```
()
(1, 2, 3, 4, 5, 6, 7)
(1.5, 2.5, 3.5, 4.5, 5.5)
Mahesh Babu
(1, 2, 3, (1, 2, 3), 4, 5, (4, 5), 6, 7)
(1, 7.7, 'Babu', True, (2+1j))
```

[17]:
```
t1 = (10,20,30,40,50,60,10,70,80,10)
t1
```

[17]: (10, 20, 30, 40, 50, 60, 10, 70, 80, 10)

[18]:
```
len(t1)
```

[18]: 10

[19]:
```
t1[7]
```

[19]: 70

[20]:
```
t1[2]
```

[20]: 30

[21]:
```
t1.count(10)
```

[21]: 3

[22]:
```
t1[-3]
```

[22]: 70

[23]:
```
t1[2:-2]
```

[23]: (30, 40, 50, 60, 10, 70)

[25]:
```
for i in t1:
    print(i)
```

```
10
20
30
40
50
```

```
60
10
70
80
10
```

[28]:
```python
for i in enumerate(t1):
    print(i)
```

```
(0, 10)
(1, 20)
(2, 30)
(3, 40)
(4, 50)
(5, 60)
(6, 10)
(7, 70)
(8, 80)
(9, 10)
```

[29]:
```python
t1
```

[29]: (10, 20, 30, 40, 50, 60, 10, 70, 80, 10)

[30]:
```python
t1[::-1]
```

[30]: (10, 80, 70, 10, 60, 50, 40, 30, 20, 10)

[31]:
```python
t1[::-2]
```

[31]: (10, 70, 60, 40, 20)

[33]:
```python
t1[::-3]
```

[33]: (10, 10, 40, 10)

[45]:
```python
t2 = t1*3
t2
```

[45]: (10,
      20,
      30,
      40,
      50,
      60,
      10,
      70,
      80,
      10,

```
        10,
        20,
        30,
        40,
        50,
        60,
        10,
        70,
        80,
        10,
        10,
        20,
        30,
        40,
        50,
        60,
        10,
        70,
        80,
        10)
```

[46]: t1

[46]: (10, 20, 30, 40, 50, 60, 10, 70, 80, 10)

[47]: 10 in t1

[47]: True

[48]: 90 in t1

[48]: False

[52]:
```python
if 10 in t1:
    print("True")
else:
    print("False")
```

True

[53]: t1

[53]: (10, 20, 30, 40, 50, 60, 10, 70, 80, 10)

[57]: t1.index(50)

[57]: 4

```
[58]: t1.index(80)
```

[58]: 8

```
[59]: t1
```

[59]: (10, 20, 30, 40, 50, 60, 10, 70, 80, 10)

```
[60]: sorted(t1)
```

[60]: [10, 10, 10, 20, 30, 40, 50, 60, 70, 80]

```
[63]: sorted(t1, reverse=True)
```

[63]: [80, 70, 60, 50, 40, 30, 20, 10, 10, 10]

Completed