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

Out[1]: ()

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

Out[2]: tuple

In [3]:
```
a10=3
type(a10)
```

Out[3]: int

In [4]:
```
t1=3,5,2,6,8,5,9
t1
```

Out[4]: (3, 5, 2, 6, 8, 5, 9)

In [5]:
```
type(t1)
```

Out[5]: tuple

In [6]:
```
t2=(10,20,40,30)
t2
```

Out[6]: (10, 20, 40, 30)

In [7]:
```
t.count()   # there is no parameter in functions that is shows error
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[7], line 1
----> 1 t.count()

TypeError: tuple.count() takes exactly one argument (0 given)
```

In [9]:
```
t.count(5)
```

Out[9]: 0

In [10]:
```
t1.count(5)
```

Out[10]: 2

In [11]:
```
t2.append(20)    # here the tuple only having two funtions are there 1.count(),2
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
Cell In[11], line 1
----> 1 t2.append(20)

AttributeError: 'tuple' object has no attribute 'append'
```

In [12]:
```
t1[0]
```

Out[12]: 3

In [13]:
```
t2[3]
```

Out[13]: 30

In [17]:
```
t1[4]
```

Out[17]: 8

In [20]:
```
t2[2]
```

Out[20]: 40

In [30]:
```
t1
```

Out[30]: (3, 5, 2, 6, 8, 5, 9)

In [38]:
```
t1*2
```

Out[38]: (3, 5, 2, 6, 8, 5, 9, 3, 5, 2, 6, 8, 5, 9)

### Slicing in tuple

In [46]:
```
t1[:]
```

Out[46]: (3, 5, 2, 6, 8, 5, 9)

In [47]:
```
t1.index(5)
```

Out[47]: 1

In [48]:
```
t1
```

Out[48]: (3, 5, 2, 6, 8, 5, 9)

In [49]:
```
t1[0:3]
```

Out[49]: (3, 5, 2)

In [50]:
```
t1[:10]
```

Out[50]: (3, 5, 2, 6, 8, 5, 9)

### Loop function in tuple

In [52]:
```
for i in t1:
    print(i)
```

```
3
5
2
6
8
5
9
```

In [53]:
```
for i in t2:
    print(i)
```

```
10
20
40
30
```

In [58]:
```
for i in enumerate(t1):
    print(i)
```

```
(0, 3)
(1, 5)
(2, 2)
(3, 6)
(4, 8)
(5, 5)
(6, 9)
```

In [59]:
```
for i in enumerate(t2):
    print(i)
```

```
(0, 10)
(1, 20)
(2, 40)
(3, 30)
```

In [61]:
```
t3=(10,20,10)
t3
```

Out[61]: (10, 20, 10)

In [62]:
```
t4=('nit',14)
type(t4)
```

Out[62]: tuple

In [63]:
```
t4[0]
```

Out[63]: 'nit'

In [68]:
```
print(t4[0][0])
print(t4[0][1])
print(t4[0][2])
print(t4[1][0])
```

```
n
i
t
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[68], line 4
      2 print(t4[0][1])
      3 print(t4[0][2])
----> 4 print(t4[1][0])

TypeError: 'int' object is not subscriptable
```

In [ ]: