```python
In [3]:   tup1 = ()
          tup1
```

Out[3]:   ()

```python
In [5]:   tup2= (10,30,60)
          tup2
```

Out[5]:   (10, 30, 60)

```python
In [7]:   tup3 = (20.5, 12.68, 33.45)
          tup3
```

Out[7]:   (20.5, 12.68, 33.45)

```python
In [11]:  tup4 = ('Shafiq', 'Shafaqat', 'Yaqoob')
          tup4
```

Out[11]: ('Shafiq', 'Shafaqat', 'Yaqoob')

```python
In [13]:  tup5 = ('Aqueel', 50, (50, 75),(80, 90))
          tup5
```

Out[13]: ('Aqueel', 50, (50, 75), (80, 90))

```python
In [15]:  tup6 = ('Shafiq', 55, 30.68)
          tup6
```

Out[15]: ('Shafiq', 55, 30.68)

```python
In [17]:  tup7 = ('Shafiq', 24, [25, 70], [66, 34], {'John', 'David'},(87, 63, 25))
          tup7
```

Out[17]: ('Shafiq', 24, [25, 70], [66, 34], {'David', 'John'}, (87, 63, 25))

```python
In [19]:  len(tup7)
```

Out[19]: 6

Tuple Indexing

```python
In [21]:  tup2[0]
```

Out[21]: 10

```python
In [23]:  tup4[0]
```

Out[23]: 'Shafiq'

```python
In [25]:  tup4[0][0]
```

Out[25]: 'S'

```
In [27]:   tup4[0][2]
```

```
Out[27]:   'a'
```

```
In [29]:   tup4[-1]
```

```
Out[29]:   'Yaqoob'
```

Slicing

```
In [33]:   mytuple = ('one', 'two', 'three', 'four', 'five','six','seven', 'eight')
```

```
In [37]:   mytuple[0:4]
```

```
Out[37]:   ('one', 'two', 'three', 'four')
```

```
In [39]:   mytuple[3: 7]
```

```
Out[39]:   ('four', 'five', 'six', 'seven')
```

```
In [41]:   mytuple[:5]
```

```
Out[41]:   ('one', 'two', 'three', 'four', 'five')
```

```
In [57]:   mytuple[:3]
```

```
Out[57]:   ('one', 'two', 'three')
```

```
In [47]:   mytuple[-3:]
```

```
Out[47]:   ('six', 'seven', 'eight')
```

```
In [51]:   mytuple[-7]
```

```
Out[51]:   'two'
```

```
In [71]:   mytuple = ('one', 'two', 'three', 'four', 'five','six','seven', 'eight')
```

```
In [74]:   del mytuple[3]
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[74], line 1
----> 1 del mytuple[3]

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

```
In [76]:   mytuple[1] = 0
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[76], line 1
----> 1 mytuple[1] = 0

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

```
In [78]:  mytuple = ('one', 'two', 'three', 'four', 'five','six','seven', 'eight')
```

```
In [80]:  for i in mytuple:
              print(i)
```

```
one
two
three
four
five
six
seven
eight
```

```
In [82]:  for i in enumerate(mytuple):
              print(i)
```

```
(0, 'one')
(1, 'two')
(2, 'three')
(3, 'four')
(4, 'five')
(5, 'six')
(6, 'seven')
(7, 'eight')
```

```
In [84]:  mytuple = ('one', 'two', 'three', 'four', 'five','six','seven', 'eight')
```

```
In [88]:  'one' in mytuple
```

```
Out[88]:  True
```

```
In [90]:  'five' in mytuple
```

```
Out[90]:  True
```

```
In [98]:  if 'one' in mytuple:
              print("one is present in tuple")

          else:
              print("one is present in tuple")
```

```
one is present in tuple
```

```
In [100…  if 'eleven' in mytuple:
              print("eleven is present in tuple")

          else:
              print("eleven is not present in tuple")
```

```
eleven is not present in tuple
```

```
In [104…  mytuple.index('one')
```

```
Out[104…  0
```

```
In [108…  mytuple1 = ('one', 'two', 'three', 'four', 'five','six','seven', 'eight')
```

```
In [110…  mytuple1.index('three')
```

Out[110…   2

In [112…   ```python
           mytuple2 = (45, 78, 54, 67, 96, 12, 11)
           ```

In [119…   ```python
           sorted(mytuple2)
           ```

Out[119…   [11, 12, 45, 54, 67, 78, 96]

In [120…   ```python
           sorted(mytuple2, reverse = True)
           ```

Out[120…   [96, 78, 67, 54, 45, 12, 11]

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: