

```

In [1]: tup1=()

In [3]: tup2=(10,20,30)

In [4]: tup3=(10.15,20.5,60.85)

In [5]: tup4=('one','two','three')

In [9]: tup5=('asif', 25, (50,100), (150,90))

In [11]: tup6=(100,'asif', 17.765)

In [13]: tup7=('asif', 25, [50,100], [150,90], {'John', 'David'},(99,22,33))

In [15]: len(tup7)

Out[15]: 6

In [17]: tup2[0]

Out[17]: 10

In [19]: tup4[0]

Out[19]: 'one'

In [21]: tup4[-1]

Out[21]: 'three'

In [23]: tup5[-1]

Out[23]: (150, 90)

In [25]: mytuple=('one','two', 'three', 'four', 'five','six', 'seven', 'eight' )

In [27]: mytuple[0:3]

Out[27]: ('one', 'two', 'three')

In [29]: mytuple[2:5]

Out[29]: ('three', 'four', 'five')

In [31]: mytuple[:3]

Out[31]: ('one', 'two', 'three')

In [33]: mytuple[:2]

Out[33]: ('one', 'two')

In [35]: mytuple[-3:]

Out[35]: ('six', 'seven', 'eight')

In [37]: mytuple[-2:]

Out[37]: ('seven', 'eight')

In [39]: mytuple[:]

Out[39]: ('one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight')

In [41]: del mytuple[0]

-----
TypeError                                Traceback (most recent call last)
Cell In[41], line 1
----> 1 del mytuple[0]

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

In [ ]: mytuple[0]=1

In [ ]: del mytuple

```

```
In [ ]: mytuple
```

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

```
In [ ]: mytuple
```

```
In [48]: for i in mytuple:  
         print(i)
```

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

```
In [50]: for i in enumerate (mytuple):  
         print(i)
```

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

```
In [52]: mytuple
```

```
Out[52]: ('one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight')
```

```
In [54]: 'one' in mytuple
```

```
Out[54]: True
```

```
In [56]: 'ten' in mytuple
```

```
Out[56]: False
```

```
In [58]: if 'three' in mytuple:  
         print('Three is present in the tuple')  
         else:  
         print('Three is not present in the tuple')
```

```
Three is present in the tuple
```

```
In [60]: if 'eleven' in mytuple:  
         print('eleven is present in the tuple')  
         else:  
         print('eleven is not present in the tuple')
```

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

```
In [62]: mytuple
```

```
Out[62]: ('one', 'two', 'three', 'four', 'five', 'six', 'seven', 'eight')
```

```
In [64]: mytuple.index('one')
```

```
Out[64]: 0
```

```
In [66]: mytuple.index('five')
```

```
Out[66]: 4
```

```
In [68]: mytuple1=('one','two', 'three', 'four', 'one','two', 'three')
```

```
In [70]: mytuple1.index('one')
```

```
Out[70]: 0
```

```
In [72]: mytuple2=(43,67,99,12,6,90,67)
```

```
In [74]: sorted(mytuple2)
```

```
Out[74]: [6, 12, 43, 67, 67, 90, 99]
```

In [76]: `sorted(mytuple2,reverse=True)`

Out[76]: [99, 90, 67, 67, 43, 12, 6]

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