

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

```
In [3]: tuple
```

```
Out[3]: ()
```

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

```
Out[5]: tuple
```

```
In [7]: t1=(10,20.3,'vaishu',1+2j)
t1
```

```
Out[7]: (10, 20.3, 'vaishu', (1+2j))
```

```
In [9]: t2=(20,40,'kala',(30,70),(90,100),'shynu')
t2
```

```
Out[9]: (20, 40, 'kala', (30, 70), (90, 100), 'shynu')
```

```
In [11]: t2[3]
```

```
Out[11]: (30, 70)
```

```
In [13]: t3=('moonu',50,[25,35],{'sri','sujji'})
t3
```

```
Out[13]: ('moonu', 50, [25, 35], {'sri', 'sujji'})
```

```
In [15]: t3[2]
```

```
Out[15]: [25, 35]
```

```
In [17]: t3[3]
```

```
Out[17]: {'sri', 'sujji'}
```

```
In [19]: t1[2][3]
```

```
Out[19]: 's'
```

```
In [27]: t1[2][0]
```

```
Out[27]: 'v'
```

```
In [29]: t1[2][1]
```

```
Out[29]: 'a'
```

```
In [33]: t1[2][2]
```

Out[33]: 'i'

In [35]: `t1[2][3]`

Out[35]: 's'

In [37]: `t2`

Out[37]: (20, 40, 'kala', (30, 70), (90, 100), 'shynu')

In [39]: `t2[-3]`

Out[39]: (30, 70)

In [41]: `len(t2)`

Out[41]: 6

In [43]: `len(t1)`

Out[43]: 4

In [45]: `len(t3)`

Out[45]: 4

In [50]: `t1`

Out[50]: (10, 20.3, 'vaishu', (1+2j))

In [54]: `t2`

Out[54]: (20, 40, 'kala', (30, 70), (90, 100), 'shynu')

In [56]: `t2[:]`

Out[56]: (20, 40, 'kala', (30, 70), (90, 100), 'shynu')

In [58]: `t2[2:5]`

Out[58]: ('kala', (30, 70), (90, 100))

In [60]: `t1[1:4]`

Out[60]: (20.3, 'vaishu', (1+2j))

In [64]: `t1.count(t1)`

Out[64]: 0

In [66]: `t1.count(30)`

Out[66]: 0

In [70]: t2.count(40)

Out[70]: 1

In [72]: t2

Out[72]: (20, 40, 'kala', (30, 70), (90, 100), 'shynu')

In [74]: **for** i **in** t2:
 print(i)

20
40
kala
(30, 70)
(90, 100)
shynu

In [76]: sorted(t2)

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[76], line 1  
----> 1 sorted(t2)  
  
TypeError: '<' not supported between instances of 'str' and 'int'
```

In [78]: t1

Out[78]: (10, 20.3, 'vaishu', (1+2j))

In [80]: sorted(t1)

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[80], line 1  
----> 1 sorted(t1)  
  
TypeError: '<' not supported between instances of 'str' and 'float'
```

In [82]: t4=('vaishu','kala','shynu')
 t4

Out[82]: ('vaishu', 'kala', 'shynu')

In [84]: sorted(t4)

Out[84]: ['kala', 'shynu', 'vaishu']

In [90]: **if** 'kala' **in** t4:
 print('yes')
 else:
 print('no')

yes

```
In [92]: if 'moonu' in t4:
          print('yes')
        else:
          print('no')
```

no

```
In [94]: t1
```

```
Out[94]: (10, 20.3, 'vaishu', (1+2j))
```

```
In [98]: if 10 in t1:
          print('yes')
        else:
          print('no')
```

yes

```
In [ ]:
```