

```
In [3]: """
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iteration in tuple is faster than list

Same as list where we don't want to change the value then we will use tuple
"""

t=(2)

print(type(t)) #shows normal int for to show tuple need to mention "," after value

tt=(7,) #tuple is like list but we cannot change the value of it (same as list where we don't want to change the value)

print(type(tt))

<class 'int'>
<class 'tuple'>
```

```
In [5]: tt=(7,)

tt.add(14)

print(tt)
```

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AttributeError                                Traceback (most recent call last)
<ipython-input-5-5b79ab2ce7fc> in <module>
      1 tt=(7,)
      2
----> 3 tt.add(14)
      4
      5 print(tt)

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

```
In [7]: t=8,1,9,1,0,0,2,0,

print(t)
```

```
len(t) #len
```

```
(8, 1, 9, 1, 0, 0, 2, 0)
```

Out[7]: 8

```
In [9]: t=8,1,9,1,0,0,2,0,  
t.count(0)
```

Out[9]: 3

```
In [10]: t=8,1,9,1,0,0,2,0,  
tt=7,7,6,0,3,5,2,4,  
ttt=t+tt  
print(ttt) #with "+" we can add tuples  
(8, 1, 9, 1, 0, 0, 2, 0, 7, 7, 6, 0, 3, 5, 2, 4)
```

```
In [13]: t=8,1,9,1,0,0,2,0,  
t.index(0) #index
```

Out[13]: 4

```
In [22]: t=8,1,9,1,0,0,2,0,  
tt=7,7,6,0,3,5,2,4,  
print(t[2:]) #from index 2 to all  
(9, 1, 0, 0, 2, 0)
```

```
In [19]: t=8,1,9,1,0,0,2,0,  
tt=7,7,6,0,3,5,2,4,  
print(tt[3:6]) #from index 3 to 5 (n-1)
```

(0, 3, 5)

```
In [20]: t=8,1,9,1,0,0,2,0,  
        tt=7,7,6,0,3,5,2,4,  
        print(t[:-1]) #from last to first
```

(8, 1, 9, 1, 0, 0, 2)

```
In [21]: t=8,1,9,1,0,0,2,0,  
        tt=7,7,6,0,3,5,2,4,  
        print(tt[-1:]) #from last it continuous
```

(4,)

```
In [ ]:
```