

```
In [ ]: # list member
```

```
In [2]: l=[100,10,15,20,30,40]  
l
```

```
Out[2]: [100, 10, 15, 20, 30, 40]
```

```
In [3]: 100 in l
```

```
Out[3]: True
```

```
In [4]: 1000 in l
```

```
Out[4]: False
```

```
In [6]: for i in l:  
        print(i)
```

```
100  
10  
15  
20  
30  
40
```

```
In [9]: for i in enumerate(l):  
        print(i)
```

```
(0, 100)  
(1, 10)  
(2, 15)  
(3, 20)  
(4, 30)  
(5, 40)
```

```
In [10]: l.sort()  
l
```

```
Out[10]: [10, 15, 20, 30, 40, 100]
```

```
In [11]: l.sort(reverse=True)
```

```
In [12]: l
```

```
Out[12]: [100, 40, 30, 20, 15, 10]
```

```
In [13]: l3=[1,2.3,'nit',True]  
l3
```

```
Out[13]: [1, 2.3, 'nit', True]
```

```
In [14]: l3.sort()  
l3
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[14], line 1  
----> 1 13.sort()  
      2 13  
  
TypeError: '<' not supported between instances of 'str' and 'float'
```

```
In [15]: 14=['a','z','m','n','l']  
        14
```

```
Out[15]: ['a', 'z', 'm', 'n', 'l']
```

```
In [16]: 14.sort()  
        14
```

```
Out[16]: ['a', 'l', 'm', 'n', 'z']
```

```
In [17]: 14.reverse()  # it change the values in reverse order  
        14
```

```
Out[17]: ['z', 'n', 'm', 'l', 'a']
```

## All and Any

```
In [18]: 1
```

```
Out[18]: [100, 40, 30, 20, 15, 10]
```

```
In [19]: all(1)  # if we are having the values without zero its is True
```

```
Out[19]: True
```

```
In [21]: any(1)
```

```
Out[21]: True
```

```
In [22]: 1.append(0)  
        1
```

```
Out[22]: [100, 40, 30, 20, 15, 10, 0]
```

```
In [24]: all(1)  # if we are having zero value in the list (its False
```

```
Out[24]: False
```

## Tuples

```
In [25]: t=()  # all our personal details in () which is tuple it is also called as imm  
        t
```

```
Out[25]: ()
```

```
In [27]: type(t)
```

```
Out[27]: tuple
```

```
In [28]: print(type(t))
```

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

```
In [29]: t.append(20)
t
```

```
-----
AttributeError                                Traceback (most recent call last)
Cell In[29], line 1
----> 1 t.append(20)
      2 t

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

```
In [35]: t1=(10,20,30)
t1
```

```
Out[35]: (10, 20, 30)
```

```
In [36]: t1.count(10)
```

```
Out[36]: 1
```

```
In [37]: t1.index(30)
```

```
Out[37]: 2
```

```
In [41]: for i in t1:
          print(i)
```

```
10
20
30
```

```
In [42]: for i in enumerate(t1):
          print(i)
```

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

```
In [43]: t2=t1*3
t2
```

```
Out[43]: (10, 20, 30, 10, 20, 30, 10, 20, 30)
```

```
In [44]: t2[2:6]
```

```
Out[44]: (30, 10, 20, 30)
```

```
In [ ]:
```