

```
In [1]: #Extracting and slicing element(s) from a list:-
```

```
In [2]: #Example-01:
```

```
In [3]: l1 = [19.45, True, 78, "Kite", "LION", 'F', 'd', "It is an egg.", '#', '*', -6+9j  
]
```

```
In [4]: l1
```

```
Out[4]: [19.45, True, 78, 'Kite', 'LION', 'F', 'd', 'It is an egg.', '#', '*',  
(-6+9j)]
```

```
In [5]: len(l1)
```

```
Out[5]: 11
```

```
In [6]: l1[0]
```

```
Out[6]: 19.45
```

```
In [7]: l1[-1]
```

```
Out[7]: (-6+9j)
```

```
In [8]: l1[:]
```

```
Out[8]: [19.45, True, 78, 'Kite', 'LION', 'F', 'd', 'It is an egg.', '#', '*',  
(-6+9j)]
```

```
In [9]: l1[::]
```

```
Out[9]: [19.45, True, 78, 'Kite', 'LION', 'F', 'd', 'It is an egg.', '#', '*',  
(-6+9j)]
```

```
In [10]: l1[::1]
```

```
Out[10]: [19.45, True, 78, 'Kite', 'LION', 'F', 'd', 'It is an egg.', '#', '*',  
          (-6+9j)]
```

```
In [11]: l1[0:]
```

```
Out[11]: [19.45, True, 78, 'Kite', 'LION', 'F', 'd', 'It is an egg.', '#', '*',  
          (-6+9j)]
```

```
In [12]: l1[0::]
```

```
Out[12]: [19.45, True, 78, 'Kite', 'LION', 'F', 'd', 'It is an egg.', '#', '*',  
          (-6+9j)]
```

```
In [13]: l1[:11:]
```

```
Out[13]: [19.45, True, 78, 'Kite', 'LION', 'F', 'd', 'It is an egg.', '#', '*',  
          (-6+9j)]
```

```
In [14]: l1[0:11]
```

```
Out[14]: [19.45, True, 78, 'Kite', 'LION', 'F', 'd', 'It is an egg.', '#', '*',  
          (-6+9j)]
```

```
In [15]: l1[3:9]
```

```
Out[15]: ['Kite', 'LION', 'F', 'd', 'It is an egg.', '#']
```

```
In [16]: l1[3:9:1]
```

```
Out[16]: ['Kite', 'LION', 'F', 'd', 'It is an egg.', '#']
```

```
In [17]: l1[3:9:2]
```

```
Out[17]: ['Kite', 'F', 'It is an egg.']
```

```
In [18]: l1[1:10:4]
```

```
Out[18]: [True, 'F', '*']
```

```
In [19]: l1[::-1]
```

```
Out[19]: [(-6+9j), '*', '#', 'It is an egg.', 'd', 'F', 'LION', 'Kite', 78, True, 19.45]
```

```
In [20]: l1[11::-1]
```

```
Out[20]: [(-6+9j), '*', '#', 'It is an egg.', 'd', 'F', 'LION', 'Kite', 78, True, 19.45]
```

```
In [21]: l1[8:2:-1]
```

```
Out[21]: ['#', 'It is an egg.', 'd', 'F', 'LION', 'Kite']
```

```
In [22]: l1[8:2:-2]
```

```
Out[22]: ['#', 'd', 'LION']
```

```
In [23]: #Example-02:
```

```
In [24]: l2 = [10,29,35,True,"Better"]  
l2
```

```
Out[24]: [10, 29, 35, True, 'Better']
```

```
In [25]: l2[0]
```

```
Out[25]: 10
```

```
In [26]: l2[-1]
```

```
Out[26]: 'Better'
```

```
In [27]: l2[-1]
```

```
Out[27]: 'Better'
```

```
In [28]: l2[-3]
```

```
Out[28]: 35
```

```
In [29]: l2[-4]
```

```
Out[29]: 29
```

```
In [30]: #Example-03:
```

```
In [31]: l3 = [False,90,34.89,'Tree','I will explore.']  
l3
```

```
Out[31]: [False, 90, 34.89, 'Tree', 'I will explore.']
```

```
In [32]: l3[0]
```

```
Out[32]: False
```

```
In [33]: l3[-5]
```

```
Out[33]: False
```

```
In [34]: l3[2]
```

```
Out[34]: 34.89
```

```
In [35]: l3[-3]
```

```
Out[35]: 34.89
```

```
In [36]: l3[-1]
```

```
Out[36]: 'I will explore.'
```

```
In [49]: l3[4]
```

```
Out[49]: 'I will explore.'
```