

# Experiment No-04: List and Dictionary

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**Roll No: 27**

**Date:**

**Check Date:**

## List

```
In [3]: [10,20,30]
```

```
Out[3]: [10, 20, 30]
```

```
In [4]: list1=[10,20,30]
```

```
In [5]: type(list1)
```

```
Out[5]: list
```

```
In [6]: list2=[10.10,20.20,30.30]
```

```
In [7]: list2
```

```
Out[7]: [10.1, 20.2, 30.3]
```

```
In [8]: list3=['Ravina', 'Mane', 'Ganeshwadi']
```

```
In [9]: list3
```

```
Out[9]: ['Ravina', 'Mane', 'Ganeshwadi']
```

```
In [10]: list4=[10,20,10.10,'Ganeshwadi']
```

```
In [11]: list4
```

```
Out[11]: [10, 20, 10.1, 'Ganeshwadi']
```

```
In [12]: list5=[12,'Ravina',10.10,[27,'Mane',10.10]]
```

```
In [13]: list5
```

```
Out[13]: [12, 'Ravina', 10.1, [27, 'Mane', 10.1]]
```

```
In [14]: list1
```

```
Out[14]: [10, 20, 30]
```

```
In [15]: list1[1]
```

```
Out[15]: 20
```

```
In [16]: list1[1][1]
```

```
-----  
TypeError
```

```
Traceback (most recent call last)
```

```
Cell In[16], line 1
```

```
----> 1 list1[1][1]
```

```
TypeError: 'int' object is not subscriptable
```

```
In [17]: list2[1]
```

```
Out[17]: 20.2
```

```
In [18]: list3[2]
```

```
Out[18]: 'Ganeshwadi'
```

```
In [19]: list3[2][3:5]
```

```
Out[19]: 'es'
```

```
In [20]: list3[2][3:5][::-1][::-1]
```

```
Out[20]: 'es'
```

```
In [21]: list3[1:8]
```

```
Out[21]: ['Mane', 'Ganeshwadi']
```

```
In [22]: list3[1:]
```

```
Out[22]: ['Mane', 'Ganeshwadi']
```

```
In [23]: list3[0:2]
```

```
Out[23]: ['Ravina', 'Mane']
```

```
In [24]: list3[:2]
```

```
Out[24]: ['Ravina', 'Mane']
```

```
In [25]: list1[1]
```

```
Out[25]: 20
```

```
In [26]: str(list1[1])
```

```
Out[26]: '20'
```

```
In [27]: str(list1[1][1])
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[27], line 1  
----> 1 str(list1[1][1])  
  
TypeError: 'int' object is not subscriptable
```

```
In [28]: list5
```

```
Out[28]: [12, 'Ravina', 10.1, [27, 'Mane', 10.1]]
```

```
In [29]: list5[3]
```

```
Out[29]: [27, 'Mane', 10.1]
```

```
In [30]: list5[3][1]
```

```
Out[30]: 'Mane'
```

```
In [31]: list5[3][1]='Ravina'
```

```
In [32]: list5
```

```
Out[32]: [12, 'Ravina', 10.1, [27, 'Ravina', 10.1]]
```

```
In [33]: list1[0]=27
```

```
In [34]: list1
```

```
Out[34]: [27, 20, 30]
```

```
In [35]: list5
```

```
Out[35]: [12, 'Ravina', 10.1, [27, 'Ravina', 10.1]]
```

```
In [36]: list5.append('SY')
```

```
In [37]: list5
```

```
Out[37]: [12, 'Ravina', 10.1, [27, 'Ravina', 10.1], 'SY']
```

```
In [38]: list6=list5.copy()
```

```
In [39]: list6
```

```
Out[39]: [12, 'Ravina', 10.1, [27, 'Ravina', 10.1], 'SY']
```

```
In [40]: list6.insert(1,'Ravina')
```

```
In [41]: list6
```

```
Out[41]: [12, 'Ravina', 'Ravina', 10.1, [27, 'Ravina', 10.1], 'SY']
```

```
In [42]: list6.reverse()
```

```
In [43]: list6
```

```
Out[43]: ['SY', [27, 'Ravina', 10.1], 10.1, 'Ravina', 'Ravina', 12]
```

```
In [48]: list6.count('Ravina')
```

```
Out[48]: 2
```

```
In [51]: list6.append('Ravina')
```

```
In [52]: list6.count('Ravina')
```

```
Out[52]: 3
```

```
In [53]: list6.remove('Ravina')
```

```
In [54]: list6
```

```
Out[54]: ['SY', [27, 'Ravina', 10.1], 10.1, 'Ravina', 12, 'Reva', 'Ravina']
```

```
In [55]: list6.pop()
```

```
Out[55]: 'Ravina'
```

```
In [56]: list6
```

```
Out[56]: ['SY', [27, 'Ravina', 10.1], 10.1, 'Ravina', 12, 'Reva']
```

## Dictionary

```
In [57]: {'Ravina':100}
```

```
Out[57]: {'Ravina': 100}
```

```
In [58]: dict1={'Ravina':100}
```

```
In [59]: dict1
```

```
Out[59]: {'Ravina': 100}
```

```
In [60]: type(dict1)
```

```
Out[60]: dict
```

```
In [61]: dict2={'Ravina':'SY', 'Sanika':'SY1', 'Joaquina':'SY3'}
```

```
In [62]: dict2
```

```
Out[62]: {'Ravina': 'SY', 'Sanika': 'SY1', 'Joaquina': 'SY3'}
```

```
In [63]: dict2['Ravina']
```

```
Out[63]: 'SY'
```

```
In [64]: dict2['Sanika']
```

```
Out[64]: 'SY1'
```

```
In [67]: dict2['Joaquina'][:-1]
```

```
Out[67]: '3YS'
```

```
In [68]: dict2['Sanika']='FY'
```

```
In [69]: dict2
```

```
Out[69]: {'Ravina': 'SY', 'Sanika': ['FY'], 'Joaquina': 'SY3'}
```

```
In [70]: dict3={'MI':['Rohit','Green'], 'CSK':['Dhoni','Ruturaj','Jadeja']}
```

```
In [71]: dict3
```

```
Out[71]: {'MI': ['Rohit', 'Green'], 'CSK': ['Dhoni', 'Ruturaj', 'Jadeja']}
```

```
In [72]: dict3['MI'][1]
```

```
Out[72]: 'Green'
```

```
In [73]: dict3['CSK'][1]
```

```
Out[73]: 'Ruturaj'
```

```
In [74]: dict4={'SY':{'FY':['Ravina','Joaquina']}}
```

```
In [75]: dict4
```

```
Out[75]: {'SY': {'FY': ['Ravina', 'Joaquina']}}
```

```
In [76]: dict4['SY']
```

```
Out[76]: {'FY': ['Ravina', 'Joaquina']}
```

```
In [77]: dict4['SY']['FY']
```

```
Out[77]: ['Ravina', 'Joaquina']
```

```
In [78]: dict3
```

```
Out[78]: {'MI': ['Rohit', 'Green'], 'CSK': ['Dhoni', 'Ruturaj', 'Jadeja']}
```

```
In [81]: dict3.keys()
```

```
Out[81]: dict_keys(['MI', 'CSK'])
```

```
In [82]: dict3.values()
```

```
Out[82]: dict_values([['Rohit', 'Green'], ['Dhoni', 'Ruturaj', 'Jadeja']])
```

```
In [83]: dict2.popitem()
```

```
Out[83]: ('Joaquina', 'SY3')
```

```
In [84]: dict3
```

```
Out[84]: {'MI': ['Rohit', 'Green'], 'CSK': ['Dhoni', 'Ruturaj', 'Jadeja']}
```

```
In [85]: dict3.pop('MI')
```

```
Out[85]: ['Rohit', 'Green']
```

```
In [86]: dict3
```

```
Out[86]: {'CSK': ['Dhoni', 'Ruturaj', 'Jadeja']}
```

```
In [87]: dict5=dict4.copy()
```

```
In [88]: dict5
```

```
Out[88]: {'SY': {'FY': ['Ravina', 'Joaquina']}}
```

```
In [89]: dict5.update({'Ravina': 'Joaquina'})
```

```
In [90]: dict5
```

```
Out[90]: {'SY': {'FY': ['Ravina', 'Joaquina']}, 'Ravina': 'Joaquina'}
```