

Experiment No.:04- List, Dictionary

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Date:

List

```
[10,20,30]
list1=[10,30,30]
print('list1=',list1)
print('type(list1)=',type(list1))
list2=[10.10,20.20,30.30]
print(list2)
list3=['Ravina','Maruti','Mane']
print('list2=',list3)
list4=[1.20,10.10,'Ganeshwadi']
print('list4=',list4)
list5=[12,'Ravina',10.10,[25,'Mane',10.10]]
print('list5=',list5)
print('list1=',list1)
print('list1[1]=',list1[1])
print('list2[1]=',list2[1])
print('list3[2]=',list3[2])
print('list3[2][3:5]=',list3[2][3:5])
print('list3[2][3:5][::-1][::-1]=',list3[2][3:5][::-1][::-1])
print('list3[1:3]=',list3[1:3])
print('list3[1:]=',list3[1:])
print('list3[0:2]=',list3[0:2])
print('list3[:2]=',list3[:2])
print('list1[1]=',list1[1])
print('str(list1[1])=',str(list1[1]))
print('str(list1[1])[1]=',str(list1[1])[1])
```

```
print('list5=',list5)
print('list5[3]=' ,list5[3])
print('list5[3][1]=' ,list5[3][1])
list5[3][1]='star'
print('list5=',list5)
list1[0]='star'
print('list1=',list1)
print('list5=',list5)
list5.append('SY')
print('list5=',list5)
list6=list5.copy()
print('list6=',list6)
list6.insert(1,'Ravina')
print('list6=',list6)
print("list6.reverse()=",list6.reverse())
print('list6=',list6)
print("list6.count('Ravina')=",list6.count('Ravina'))
print("list6.append('Ravina')=",list6.append('Ravina'))
print("list6.count('Ravina')=",list6.count('Ravina'))
print("list6.remove('Ravina')=",list6.remove('Ravina'))
print('list6=',list6)
print("list6.pop()=",list6.pop())
print('list6=',list6)
```

Dictionary

```
print("Dictionary")
{'Ravina':100}
print({'Ravina':100})
dict1={'Ravina':100}
print(dict1)
```

```
print(type(dict1))

dict2={'sachin':'MI','Mane':'MI1','Rohit':'csk'}

print(dict2)

print(dict2['sachin'])

print(dict2['Mane'])

print(dict2['Mane'][:-1])

print(dict2['sachin'])

dict2['mane']='csk'

print(dict2)

dict2['Rohit']='MI'

print(dict2)

dict3={'Ravina':['Rohit','Green'],'csk':['Dhoni','Ruturaj','Jadeja']}

print(dict3)

print(dict3['Ravina'][1])

print(dict3['csk'][1])

dict4={'Ravina':{'csk':['Rohit','Lobo']}}

print(dict4)

print(dict4['Ravina'])

print(dict4['Ravina']['csk'])

print(dict3)

print(dict3.keys())

print(dict3.values())

print(dict2.popitem())

print(dict3)

print(dict3.pop('Ravina'))

print(dict3)

dict5=dict4.copy()

print(dict5)

dict5.update({'RCB':'Kohali'})

print(dict5)
```

Output:

```
Command Prompt
C:\Users\loboj>python RA2.py
list1= [10, 30, 30]
type(list1)= <class 'list'>
[10.1, 20.2, 30.3]
list2= ['Ravina', 'Maruti', 'Mane']
list4= [1.2, 10.1, 'Ganeshwadi']
list5= [12, 'Ravina', 10.1, [25, 'Mane', 10.1]]
list1= [10, 30, 30]
list1[1]= 30
list2[1]= 20.2
list3[2]= Mane
list3[2][3:5]= e
list3[2][3:5][::-1][::-1]= e
list3[1:3]= ['Maruti', 'Mane']
list3[1:]= ['Maruti', 'Mane']
list3[0:2]= ['Ravina', 'Maruti']
list3[:2]= ['Ravina', 'Maruti']
list1[1]= 30
str(list1[1])= 30
str(list1[1])[1]= 0
list5= [12, 'Ravina', 10.1, [25, 'Mane', 10.1]]
list5[3]= [25, 'Mane', 10.1]
list5[3][1]= Mane
list5= [12, 'Ravina', 10.1, [25, 'star', 10.1]]
list1= ['star', 30, 30]
list5= [12, 'Ravina', 10.1, [25, 'star', 10.1]]
list5= [12, 'Ravina', 10.1, [25, 'star', 10.1], 'SV']
list6= [12, 'Ravina', 10.1, [25, 'star', 10.1], 'SV']
list6= [12, 'Ravina', 'Ravina', 10.1, [25, 'star', 10.1], 'SV']
list6.reverse()= None
list6= ['SV', [25, 'star', 10.1], 10.1, 'Ravina', 'Ravina', 12]
list6.count('Ravina')= 2
list6.append('Ravina')= None
list6.count('Ravina')= 3
list6.remove('Ravina')= None
list6= ['SV', [25, 'star', 10.1], 10.1, 'Ravina', 12, 'Ravina']
list6.pop()= Ravina
list6= ['SV', [25, 'star', 10.1], 10.1, 'Ravina', 12]
Dictionary
{'Ravina': 100}

list6.pop()= Ravina
list6= ['SV', [25, 'star', 10.1], 10.1, 'Ravina', 12]
Dictionary
{'Ravina': 100}
{'Ravina': 100}
<class 'dict'>
{'sachin': 'MI', 'Mane': 'MI1', 'Rohit': 'csk'}
MI
MI1
1IM
MI
{'sachin': 'MI', 'Mane': 'MI1', 'Rohit': 'csk', 'mane': ['csk']}
{'sachin': 'MI', 'Mane': 'MI1', 'Rohit': ['MI'], 'mane': ['csk']}
{'Ravina': ['Rohit', 'Green'], 'csk': ['Dhoni', 'Ruturaj', 'Jadeja']}
Green
Ruturaj
{'Ravina': {'csk': ['Rohit', 'Lobo']}}
{'csk': ['Rohit', 'Lobo']}
['Rohit', 'Lobo']
{'Ravina': ['Rohit', 'Green'], 'csk': ['Dhoni', 'Ruturaj', 'Jadeja']}
dict_keys(['Ravina', 'csk'])
dict_values(['Rohit', 'Green'], ['Dhoni', 'Ruturaj', 'Jadeja'])
('mane', ['csk'])
{'Ravina': ['Rohit', 'Green'], 'csk': ['Dhoni', 'Ruturaj', 'Jadeja']}
['Rohit', 'Green']
{'csk': ['Dhoni', 'Ruturaj', 'Jadeja']}
{'Ravina': {'csk': ['Rohit', 'Lobo']}}
{'Ravina': {'csk': ['Rohit', 'Lobo']}, 'RCB': 'Kohli'}

C:\Users\loboj>
```