

"""creating a list"""

```
list = ['ROBERT','RAGHU','RAJESH']
```

"""Adding elements to the list"""

```
list.insert(1,"Xavier")
print(list)
list.append("Chrome")
print(list)
```

"""modifying element at index 2 and 3 in the list"""

```
list[2] = "Brave"
list[3] = "Microsoft edge"
print(list)
```

"""Removing the elements using different methods"""

```
popped_element =list.pop(1)
print(popped_element)
print(list)
```

"""removing elements by value"""

```
list.remove("Chrome")
list.remove("Microsoft edge")
list.remove("ROBERT")
print(list)
```

""" Deleting entire list"""

```
del list
print(list)
```

"""working with dictionaries
Create an empty dictionary"""

```
sample_dict = { }
print(sample_dict)
```

""" entering values to the dictionary in a key,value format"""

```
sample_dict["Alphabet1"] = "A"  
sample_dict["Alphabet2"] = "B"  
sample_dict["Alphabet3"] = "C"  
sample_dict["Alphabet4"] = "D"  
sample_dict["Alphabet5"] = "E"
```

```
print(sample_dict)
```

""" Modifying values in the dictionary """

```
sample_dict["Alphabet2"] = "F"  
sample_dict["Alphabet4"] = "G"  
print(sample_dict)
```

"""adding new key value pair"""

```
sample_dict["Alphabet6"] = "X"  
sample_dict["Alphabet7"] = "Y"  
print(sample_dict)
```

"""accessing key,values from dictionary"""

```
list_of_keys = sample_dict.keys()  
print(list_of_keys)  
list_of_values = sample_dict.values()  
print(list_of_values)
```

"""Accessing through keys"""

```
x= sample_dict["Alphabet1"]  
print(x)  
y= sample_dict["Alphabet6"]  
print(y)
```

"""removing or deleting elements"""

```
popped = sample_dict.pop("Alphabet5")  
print(popped)  
sample_dict.clear()  
print(sample_dict)  
del sample_dict
```

"""sets

adding elements to the set """

```
sample_set = {"roshan", "suresh" ,"balu" , "rupesh"}
```

```
listset = list(sample_set)
```

```
print(listset)
```

```
listset.append("Rupa")
```

```
listset.insert(2,"Rohit")
```

```
print(listset)
```

```
convert_set= set(listset)
```

```
print(convert_set)
```

"""removing elements from the set"""

```
listset1 = list(sample_set)
```

```
print(listset1)
```

```
listset1.remove("balu")
```

```
print(listset1)
```

```
popped1 = listset1.pop(2)
```

```
print(popped1)
```

```
print(listset1)
```

```
convert_set1= set(listset1)
```

```
print(convert_set1)
```

"""Modifying elements from the set"""

```
listset2 = list(sample_set)
```

```
print(listset2)
```

```
listset2[1] = "Ramu"
```

```
listset2[3]= "Lakshman"
```

```
print(listset2)
```

```
convert_set2 = set(listset2)
```

```
print(convert_set2)
```

"""deleting set """

```
del listset2
```

```
['ROBERT', 'Xavier', 'RAGHU', 'RAJESH']
['ROBERT', 'Xavier', 'RAGHU', 'RAJESH', 'Chrome']
['ROBERT', 'Xavier', 'Brave', 'Microsoft edge',
 'Chrome']
Xavier
['ROBERT', 'Brave', 'Microsoft edge', 'Chrome']
['Brave']
<class 'list'>
{}
{'Alphabet1': 'A', 'Alphabet2': 'B', 'Alphabet3': 'C',
 'Alphabet4': 'D', 'Alphabet5': 'E'}
{'Alphabet1': 'A', 'Alphabet2': 'F', 'Alphabet3': 'C',
 'Alphabet4': 'G', 'Alphabet5': 'E'}
{'Alphabet1': 'A', 'Alphabet2': 'F', 'Alphabet3': 'C',
 'Alphabet4': 'G', 'Alphabet5': 'E', 'Alphabet6':
 'X', 'Alphabet7': 'Y'}
dict_keys(['Alphabet1', 'Alphabet2', 'Alphabet3',
 'Alphabet4', 'Alphabet5', 'Alphabet6',
 'Alphabet7'])
dict_values(['A', 'F', 'C', 'G', 'E', 'X', 'Y'])
A
X
E
{}
['balu', 'suresh', 'roshan', 'rupesh']
['balu', 'suresh', 'Rohit', 'roshan', 'rupesh',
 'Rupa']
{'Rupa', 'suresh', 'balu', 'Rohit', 'roshan',
 'rupesh'}
['balu', 'suresh', 'roshan', 'rupesh']
['suresh', 'roshan', 'rupesh']
rupesh
['suresh', 'roshan']
{'roshan', 'suresh'}
['balu', 'suresh', 'roshan', 'rupesh']
['balu', 'Ramu', 'roshan', 'Lakshman']
{'balu', 'Ramu', 'Lakshman', 'roshan'}
```

=== Code Execution Successful ===