

```
# List
mylist=[10,"Ram",True,123,"Things"]
print('The values are',mylist)
print(mylist[0])
print(mylist[1])
print(mylist[2])
print(mylist[3])
print(mylist[4])

mylist[-4]=False
print('After updating the value is',mylist)

mylist.append(80)
print("after appending the values are",mylist)

mylist.insert(3,10)
print("The values are",mylist)

del mylist[-2]
print("The values are",mylist)

print(type(mylist))
print(len(mylist))

    The values are [10, 'Ram', True, 123, 'Things']
    10
    Ram
    True
    123
    Things
    After updating the value is [10, False, True, 123, 'Things']
    after appending the values are [10, False, True, 123, 'Things', 80]
    The values are [10, False, True, 10, 123, 'Things', 80]
    The values are [10, False, True, 10, 123, 80]
    <class 'list'>
    6

a=[6,12]
b=int(input("Enter the value"))

a.insert(2,b)
print(a)

a.append(-2)
print(a)

r=[4.5,20,36]
print(r)

del r[1]
print(r)
print(type(r))

    Enter the value24
    [6, 12, 24]
    [6, 12, 24, -2]
    [4.5, 20, 36]
    [4.5, 36]
    <class 'list'>

#Tuple
mytuple=(20,"No",1.7,"Sort")
print(mytuple)

    (20, 'No', 1.7, 'Sort')

mytuple=(34,56,"Bannu")
print(mytuple)

    (34, 56, 'Bannu')

# Dictionary
mydic={"Username":"Ram","Password":9704,"Dept":"CSE"}
print(mydic)

mydic["Dept"]="CSE-AI"
print(mydic)

mydic["DOB"]=2003
print(mydic)

mydic["Brand"]=["a","b","c"]
print(mydic)
```

```
1 This is written by the user
2
```

```

mydic.pop("Brand")
print(mydic)

del mydic
{'Username': 'Ram', 'Password': 9704, 'Dept': 'CSE'}
{'Username': 'Ram', 'Password': 9704, 'Dept': 'CSE-AI'}
{'Username': 'Ram', 'Password': 9704, 'Dept': 'CSE-AI', 'DOB': 2003}
{'Username': 'Ram', 'Password': 9704, 'Dept': 'CSE-AI', 'DOB': 2003, 'Brand': ['a', 'b']}
{'Username': 'Ram', 'Password': 9704, 'Dept': 'CSE-AI', 'DOB': 2003}

mydic={"Game":"Cricket","Name":"Sai","Age":24}
print(mydic)

mydic["Name"]="Sai Krishna"
print(mydic)

mydic["DOB"]=2004
print(mydic)

mydic["Team"]=["India"]
print(mydic)

mydic.pop("Age")
print(mydic)

del mydic

{'Game': 'Cricket', 'Name': 'Sai', 'Age': 24}
{'Game': 'Cricket', 'Name': 'Sai Krishna', 'Age': 24}
{'Game': 'Cricket', 'Name': 'Sai Krishna', 'Age': 24, 'DOB': 2004}
{'Game': 'Cricket', 'Name': 'Sai Krishna', 'Age': 24, 'DOB': 2004, 'Team': ['India']}
{'Game': 'Cricket', 'Name': 'Sai Krishna', 'DOB': 2004, 'Team': ['India']}

# Set
set1={1,2,3,54,5,4,5,10}
print("The values of set1 is",set1)

set1.add(30)
print(set1)

set2={"Ram",12,45,87}
print(set2)

set3=set1.union(set2)
print(set3)

set4=set1.intersection(set3)
print(set4)

set4.clear()
print(set4)

The values of set1 is {1, 2, 3, 4, 5, 10, 54}
{1, 2, 3, 4, 5, 10, 54, 30}
{45, 12, 'Ram', 87}
{1, 2, 3, 4, 5, 10, 12, 45, 54, 87, 'Ram', 30}
{1, 2, 3, 4, 5, 10, 54, 30}
set()

set5={20,35,68,True}
print("The values of set1 is",set1)

set5.add(75)
print(set5)

set6={"Prasad",18,42,96}
print(set6)

set7=set6.union(set5)
print(set7)

set8=set7.intersection(set6)
print(set8)

set5.clear()
print(set5)

The values of set1 is {1, 2, 3, 4, 5, 10, 54, 30}
{True, 35, 68, 75, 20}
{'Prasad', 18, 42, 96}
{96, True, 35, 68, 'Prasad', 42, 75, 18, 20}
{'Prasad', 18, 42, 96}
set()

myfile = open("a.txt","r")
print(myfile.read())

```

```
myfile=open("a.txt","w")
myfile.write("This is written by the user \n")

print(myfile.read())
```

This is written by the user

This is written by the user

```
mylines=["Good evening \n","Welcome back to the class"]
```

```
with open("a.txt","w") as file:
    file.writelines(mylines)
(myfile.read())
```

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✓ 0s completed at 5:34 PM



































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































