In [1]:
```
#list
a = []
print(type(a))
a=[10]
print(type(a))
```

```
<class 'list'>
<class 'list'>
```

In [2]:
```
#tuple
a = ()
print(type(a))
a=(10)
print(type(a))
```

```
<class 'tuple'>
<class 'int'>
```

In [3]:
```
#dictionary & set
a = {}
print(type(a))
a={10}
print(type(a))
```

```
<class 'dict'>
<class 'set'>
```

In [5]:
```
#list
l1 = ["Java","Python",2023,12.35,"Practical-1",True]
print(l1)

print(l1[0])
l1.append("Sanjeev")
print(l1)

l1.insert(2,20)
print(l1)
```

```
['Java', 'Python', 2023, 12.35, 'Practical-1', True]
Java
['Java', 'Python', 2023, 12.35, 'Practical-1', True, 'Sanjeev']
['Java', 'Python', 20, 2023, 12.35, 'Practical-1', True, 'Sanjeev']
```

In [7]:
```
#List
l1 = ["Java","Python",2023,12.35,"Practical-1",True]
del l1[2]
print(l1)

a = l1.pop(3)
print("Remove Elements",a)
print(l1)

l1.remove(True)
print(l1)
```

```
['Java', 'Python', 12.35, 'Practical-1', True]
Remove Elements Practical-1
['Java', 'Python', 12.35, True]
['Java', 'Python', 12.35]
```

In [10]:
```
#List
l1 = ["Java","Python",2023,12.35,"Practical-1",True]
print("Length of List 1 is :",len(l1))
l1.reverse()
print("Reverse is :",l1)
```

```
Length of List 1 is : 6
Reverse is : [True, 'Practical-1', 12.35, 2023, 'Python', 'Java']
```

In [18]:
```
#List
l1 = [10,1,30,0,5,10,100]
print(l1)
l1.sort()
print(l1)
l1.sort(reverse = True)
print(l1)

c = l1.count(10)
print("Total 10 in List:",c)

print("Max value in List:",max(l1))
print("Min value in List:",min(l1))

l2 = l1.copy()
print(l2)
print(l1.index(30))
```

```
[10, 1, 30, 0, 5, 10, 100]
[0, 1, 5, 10, 10, 30, 100]
[100, 30, 10, 10, 5, 1, 0]
Total 10 in List: 2
Max value in List: 100
Min value in List: 0
[100, 30, 10, 10, 5, 1, 0]
1
```

In [20]:
```
#list
l1 = [10,1,30,0,5,10,100]
l2 = ['a','b','c']

l1.extend(l2)
print(l1)
```

```
[10, 1, 30, 0, 5, 10, 100, 'a', 'b', 'c']
```

In [ ]:
```

```