

In [1]:

```
list1 = ['physics', 'chemistry', 1997, 2000];  
list2 = [1, 2, 3, 4, 5, 6, 7];  
print ("list1[0]: ", list1[2])  
print ("list2[1:5]: ", list2[1:3])
```

```
list1[0]: 1997  
list2[1:5]: [2, 3]
```

In [2]:

```
list = ['physics', 'chemistry', 1997, 2000];  
print ("Value available at index 2 : ")  
print (list[2])  
list[2] = 999999;  
print ("New value available at index 2 : ")  
print (list[2])
```

```
Value available at index 2 :  
1997  
New value available at index 2 :  
999999
```

In [3]:

```
list1 = ['physics', 'chemistry', 1997, 2000];  
print (list1)  
del (list1[2]);  
print ("After deleting value at index 2 :")  
print (list1)
```

```
['physics', 'chemistry', 1997, 2000]  
After deleting value at index 2 :  
['physics', 'chemistry', 2000]
```

In [4]:

```
list1, list2 = [123, 'xyz', 'zara'], [456, 'abc']  
print ("First list length : ", len(list1))  
print ("Second list length : ", len(list2))
```

```
First list length : 3  
Second list length : 2
```

In [5]:

```
aList = [123, 'xyz', 'zara', 'abc'];  
aList.append( 2009 );  
print ("Updated List : ", aList)
```

```
Updated List : [123, 'xyz', 'zara', 'abc', 2009]
```

In [6]:

```
aList = [123, 'xyz', 'xyz', 'abc', 123];  
print ("Count for xyz : ", aList.count('xyz'))  
print ("Count for zara : ", aList.count('zara'))
```

Count for xyz : 2
Count for zara : 0

In [8]:

```
aList = [123, 'xyz', 'zara', 'abc', 123];  
bList = [2009, 'Nikhitha G'];  
aList.extend(bList)  
print ("Extended List : ", aList)
```

Extended List : [123, 'xyz', 'zara', 'abc', 123, 2009, 'Nikhitha G']

In [9]:

```
aList = [123, 'xyz', 'zara', 'abc', 'zara'];  
print ("Index for xyz : ", aList.index('xyz'))  
print ("Index for zara : ", aList.index('zara'))
```

Index for xyz : 1
Index for zara : 2

In [10]:

```
aList = [123, 'xyz', 'zara', 'abc']  
aList.insert(3, 2009)  
print ("Final List : ", aList)
```

Final List : [123, 'xyz', 'zara', 2009, 'abc']

In [11]:

```
aList = [123, 'xyz', 'zara', 'abc'];  
  
print(aList)  
  
print ("List after popping last element : ", aList.pop())  
  
print(aList)  
  
print ("List after popping element from mentioned index: ", aList.pop(2))  
  
print(aList)  
  
aList.insert(3, 2009)  
  
print(aList)
```

[123, 'xyz', 'zara', 'abc']
List after popping last element : abc
[123, 'xyz', 'zara']
List after popping element from mentioned index: zara
[123, 'xyz']
[123, 'xyz', 2009]

In [12]:

```
aList = [123, 'xyz', 'zara', 'abc', 'xyz'];  
aList.remove('xyz');  
print ("List : ", aList)  
aList.remove('abc');  
print ("List : ", aList)
```

```
List :  [123, 'zara', 'abc', 'xyz']  
List :  [123, 'zara', 'xyz']
```

In [14]:

```
aList = ['Nikhitha G', 'xyz', 'zara', 'abc', 'nive'];  
aList.reverse();  
print ("List : ", aList)
```

```
List :  ['nive', 'abc', 'zara', 'xyz', 'Nikhitha G']
```

In [17]:

```
aList = ['shalini', 'Nikhitha', 'sonia', 'usha', '2'];  
aList.sort();  
print ("List : ", aList)
```

```
List :  ['2', 'Nikhitha', 'shalini', 'sonia', 'usha']
```

In [18]:

```
aList = [ 'xyz', 'zara', 'abc', 'xyz'];  
aList.sort();  
print ("List : ", aList)
```

```
List :  ['abc', 'xyz', 'xyz', 'zara']
```

In []: