In [1]:
```
## =,copy(),deepcopy()
lst1=[1,2,3,4]
lst2=lst1
```

In [2]:
```
lst2[1]=1000
```

In [3]:
```
lst2
```

Out[3]: [1, 1000, 3, 4]

In [4]:
```
lst1
```

Out[4]: [1, 1000, 3, 4]

In [5]:
```
##copy
## Shallow Copy
lst1=[1,2,3,4]
lst2=lst1.copy()
```

In [6]:
```
lst2[1]=1000
```

In [7]:
```
lst2,lst1
```

Out[7]: ([1, 1000, 3, 4], [1, 2, 3, 4])

In [8]:
```
## Shallow Copy nested list
lst1=[[1,2,3,4],[5,6,7,8]]
lst2=lst1.copy()
```

In [9]:
```
lst1[1][0]=100
```

In [10]:
```
lst1
```

Out[10]:
```
[[1, 2, 3, 4], [100, 6, 7, 8]]
```

In [11]:
```
lst2
```

Out[11]:
```
[[1, 2, 3, 4], [100, 6, 7, 8]]
```

In [12]:
```
lst1.append([2,3,4,5])
```

In [13]:
```
lst1
```

Out[13]:
```
[[1, 2, 3, 4], [100, 6, 7, 8], [2, 3, 4, 5]]
```

In [14]:
```
lst2
```

Out[14]:
```
[[1, 2, 3, 4], [100, 6, 7, 8]]
```

In [15]:
```
##deep copy
import copy
lst1=[1,2,3,4]
lst2=copy.deepcopy(lst1)
```

In [16]:
```
lst2[1]=100
```

In [17]:
```
lst2
```

Out[17]:
```
[1, 100, 3, 4]
```

In [18]:
```
lst1
```

Out[18]: [1, 2, 3, 4]

In [19]:
```
### In a normal list shallow ===deep copy
```

In [20]:
```
lst1=[[1,2,3],[3,4,5,],[5,6,7]]
lst2=lst1.copy()
```

In [21]:
```
lst1=[[1,2,3],[3,4,5,],[5,6,7]]
lst2=copy.deepcopy(lst1)
```

In [22]:
```
lst2[1][0]=100
```

In [23]:
```
lst2
```

Out[23]: [[1, 2, 3], [100, 4, 5], [5, 6, 7]]

In [24]:
```
lst1
```

Out[24]: [[1, 2, 3], [3, 4, 5], [5, 6, 7]]