List Append:

In [1]:

```
sample_list = list([10, 20, 30.50, 40.550])

sample_list.append("Python")

print(sample_list)
```

```
[10, 20, 30.5, 40.55, 'Python']
```

Nested List Append:

In [2]:

```
sample_list.append([50, 60, 70])

print(sample_list)
```

```
[10, 20, 30.5, 40.55, 'Python', [50, 60, 70]]
```

Insert List Element at a Particular Index Position:

In [3]:

```
sample_list = [5, 10, 15, 20, 30]

sample_list.insert(4, 25)

print(sample_list)
```

```
[5, 10, 15, 20, 25, 30]
```

Modifying a List:

In [11]:

```
sample_list = [1, 3, 5, 7, 9]

sample_list[0:3] = [35, 40, 45]

print(sample_list)
```

```
[35, 40, 45, 7, 9]
```

Various List functions for Removing List Elements:

In [17]:

```
sample_list = [1, "C", 2, "C++", 3, "Java", 4, "Python"]

sample_list.remove(2) #Index Position

print(sample_list)

sample_list.pop(4) #Index Position

print(sample_list)

del sample_list[5] #Index Position
```

```
print(sample_list)

sample_list.clear()

print(sample_list)
```

```
[1, 'C', 'C++', 3, 'Java', 4, 'Python']
[1, 'C', 'C++', 3, 4, 'Python']
[1, 'C', 'C++', 3, 4]
[]
```

Concatenating Multiple Lists:

In [20]:

```
sample_list1 = ["Alpha", "Beta", "Gamma"]

sample_list2 = ["Echo", "Charlie", "Delta"]

new_list = sample_list1 + sample_list2

print(new_list)

print("\n")

# We can also use the extend() method

sample_list1.extend(sample_list2)

print(sample_list1)
```

```
['Alpha', 'Beta', 'Gamma', 'Echo', 'Charlie', 'Delta']


['Alpha', 'Beta', 'Gamma', 'Echo', 'Charlie', 'Delta']
```