In [1]:
```python
# creating list
a=[]
b=[1,2,3,4,5,6]
c=["Apple","Orange","Banana","Kiwi","Mango"]
```

In [2]:
```python
#Add 2 lists
# Append
d=b+c
print(d)
```

```
[1, 2, 3, 4, 5, 6, 'Apple', 'Orange', 'Banana', 'Kiwi', 'Mango']
```

In [3]:
```python
# Append(for and in)
sum=0
for num in a:
  sum=sum+a
print(sum)
```

```
0
```

In [19]:
```python
#Add items into the list
#Appending(range)
s=[]
for i in range(3,15,2):
  s.append(i)
print(s)
```

```
[3, 5, 7, 9, 11, 13]
```

In [20]:
```python
#Appending
p=["a","b","c"]
p.append("G")
print(p)
```

```
['a', 'b', 'c', 'G']
```

In [22]:
```python
#inserting
o=[12,1,45,78]
t=[]
o.insert(5,88)
t.insert(0,23.5)
print(o)
print(t)
```

```
[12, 1, 45, 78, 88]
[23.5]
```

In [23]:
```python
#Displaying the List
print(a)
print(b)
print(c)
print(d)
print(sum)
print(s)
print(p)
print(t)
```

```
[]
[1, 2, 3, 4, 5, 6]
['Apple', 'Orange', 'Banana', 'Kiwi', 'Mango']
[1, 2, 3, 4, 5, 6, 'Apple', 'Orange', 'Banana', 'Kiwi', 'Mango']
0
[3, 5, 7, 9, 11, 13]
['a', 'b', 'c', 'G']
[23.5]
```

In [24]:
```python
#Accessing Elements in Lists
Q=[1,2,3,4,5,6,7]
print("Original list is : " + str(Q))
print("List index-value are : ")
for i in range(len(Q)):
    print(i, end=" ")
    print(Q[i])
```

```
Original list is : [1, 2, 3, 4, 5, 6, 7]
List index-value are :
0 1
1 2
2 3
3 4
4 5
5 6
6 7
```

In [25]:
```python
#Accessing Elements in Lists
E=[1,2,3,4,5,6,7]
print("Original list is : " + str(E))
print("List index-value are : ")
print([list((i, E[i])) for i in range(len(E))])
```

```
Original list is : [1, 2, 3, 4, 5, 6, 7]
List index-value are :
[[0, 1], [1, 2], [2, 3], [3, 4], [4, 5], [5, 6], [6, 7]]
```

In [26]:
```python
#Accessing elements
programming_lang = ['P','Y','T','H','O','N']

print(programming_lang)

print("At index 0:", programming_lang[0])
print("At index 3:",programming_lang[3])
```

```
['P', 'Y', 'T', 'H', 'O', 'N']
At index 0: P
At index 3: H
```

In [28]:
```python
#Length of List
programming_lang = ['P','Y','T','H','O','N']
print("Length of the List:",len(programming_lang))
```

```
Length of the List: 6
```

In [33]:
```python
#Length of Particular item in list
programming_lang = ['P','Y','T','H','O','N']
print("Length of the letter P is:",len(programming_lang))
```

```
Lenth of the letter P is: 6
```

In [39]:
```python
#Assignment operator in list
list1 = [1,2,3,4,5]
list2 = [6,7,8,9]
list3 = list1
```

```python
list4 = [1,2,3,4,5]
list4 += [45,78,90]
print(list1)
print(list2)
print(list3)
print(list4)
```

```
[1, 2, 3, 4, 5]
[6, 7, 8, 9]
[1, 2, 3, 4, 5]
[1, 2, 3, 4, 5, 45, 78, 90]
```

In [41]:
```python
a = ["apple", "banana", "cherry"]
i = 0
while i < len(a):
  print(a[i])
  i = i + 1
```

```
apple
banana
cherry
```

In [ ]: