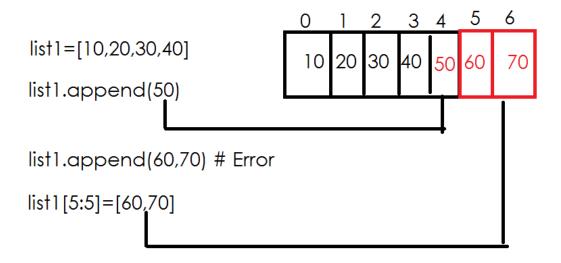
How to append more than one value?

Append more than one value is done using slicing.

Syntax: list-name[lengthlist:lengthlist]



salesList1=[1000,2000,3000]

salesList2=[4000,5000,6000,7000]

salesList1[len(salesList1):len(salesList1)]=salesList2

print(salesList1) [1000,200,3000,4000,5000,6000,7000] print(salesList2) [4000,5000,6000,7000]

Example:

list1=[10,20,30,40,50] list2=[60,70,80] print(f'Before Append List1 {list1}') print(f'List2 content is {list2}') list1[len(list1):len(list1)]=list2 print(f'After Append List {list1}')

Output:

Before Append List1 [10, 20, 30, 40, 50] List2 content is [60, 70, 80] After Append List [10, 20, 30, 40, 50, 60, 70, 80]

Inserting value at given position

Insert(index,object)

This method inserts one object before index.

Inserting more than one value/object?

Inserting more than one value is done using slicing.

List-name[startindex:endindex]=iterable

startindex:endindex must be same.

```
>>> list1=[10,20,30,40,50]
>>> print(list1)
[10, 20, 30, 40, 50]
>>> list1[2:2]=[88,99]
>>> print(list1)
[10, 20, 88, 99, 30, 40, 50]
```

Replacing or updating values/elements

Replacing values are done in two ways.

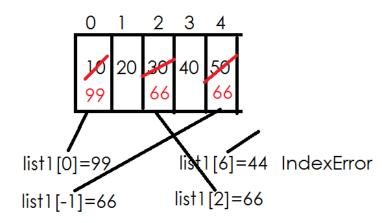
- 1. Using index
- 2. Using slicing

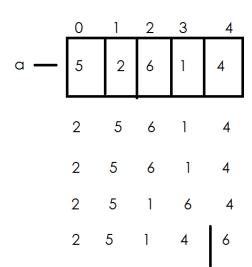
Using index one value is replaced.
Using slicing more than one value is replaced.

Syntax of replacing one value

list-name[index]=value

list1 = [10,20,30,40,50]





bubble Sort

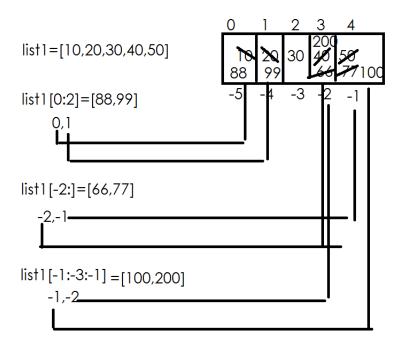
```
for i in range(5):
    for j in range(0,4):
        if a[j]>a[j+1]:
        a[j],a[j+1]=a[j+1],a[j]
```

```
>>> list1=[10,20,30,40,50]
>>> print(list1)
[10, 20, 30, 40, 50]
>>> list1[0]=99
>>> print(list1)
```

```
[99, 20, 30, 40, 50]
>>> list1[-1]=88
>>> print(list1)
[99, 20, 30, 40, 88]
>>> list1[2]=66
>>> print(list1)
[99, 20, 66, 40, 88]
Example:
# Write a program to sort elements of the list
# in ascending order using bubble sorting/exchange sorting
n=int(input("Enter How Many Elements?"))
a=[]
for i in range(n):
  value=int(input("Enter Value "))
  a.append(value)
print(f'Before Sorting {a}')
for i in range(n):
  for j in range(n-1):
     if a[i]>a[i+1]:
       a[i],a[i+1]=a[i+1],a[i]
print(f'After Sorting {a}')
Output:
Enter How Many Elements?5
Enter Value 4
Enter Value 2
Enter Value 1
Enter Value 5
Enter Value 3
Before Sorting [4, 2, 1, 5, 3]
After Sorting [1, 2, 3, 4, 5]
```

Syntax of replacing more than one value

list-name[startindex:endindex]=iterable



Example:

```
>>> a=list(range(10,110,10))
>>> print(a)
[10, 20, 30, 40, 50, 60, 70, 80, 90, 100]
>>> a[:2]=[88,99]
>>> print(a)
[88, 99, 30, 40, 50, 60, 70, 80, 90, 100]
>>> a[-2:]=[99,111]
>>> print(a)
[88, 99, 30, 40, 50, 60, 70, 80, 99, 111]
>>> a[::2]=[1,2,3,4,5]
>>> print(a)
[1, 99, 2, 40, 3, 60, 4, 80, 5, 111]
```

Delete elements or values from list

Python allows removing elements from list in different ways.

- 1. Using del keyword
- 2. Using remove method
- 3. Using pop method
- 4. Using clear method

del keyword

This keyword is used to delete one or more than one element from list. This delete keyword required.

- 1. Index
- 2. Slicing

List → Mutable

Tuple

String

Range

Bytes

Bytearray → Mutable