

```
my_list = [5, 8, 'Tom', 7.50, 'Emma']

# iterate a list
for item in my_list:
    print(item)

my_list = [5, 8, 'Tom', 7.50, 'Emma']

# iterate a list
for i in range(0, len(my_list)):
    # print each item using index number
    print(my_list[i])
```

```
We can add a new element / list of elements to the list using the list methods such as append(), insert(), and extend().

Append item at the end of the list: The append() method will accept only one parameter and add it at the end of the list.

my_list = list([5, 8, 'Tom', 7.50])

# Using append()
my_list.append('Emma')
print(my_list)
# Output [5, 8, 'Tom', 7.5, 'Emma']

# append the nested list at the end
my_list.append([25, 50, 75])
print(my_list)
# Output [5, 8, 'Tom', 7.5, 'Emma', [25, 50, 75]]
```

```
Add item at the specified position in the list: the insert() method to add the object / item at the specified position in the list. The insert method accepts two parameters position and object.

my_list = list([5, 8, 'Tom', 7.50])

# Using insert()

# insert 25 at position 2

my_list.insert(2, 25)

print(my_list)

# Output [5, 8, 25, 'Tom', 7.5]

# insert nested list at at position 3

my_list.insert(3, [25, 50, 75])

print(my_list)

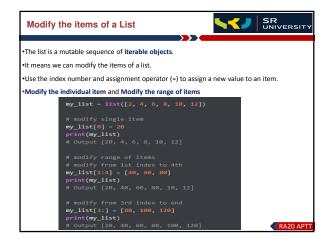
# Output [5, 8, 25, [25, 50, 75], 'Tom', 7.5]
```

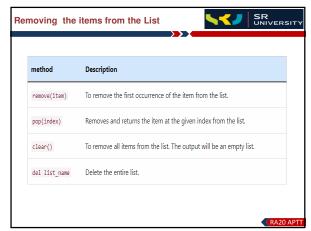
```
Adding elements to the list

Using extend(): The extend method will accept the list of elements and add them at the end of the list. We can even add another list by using this method.

my_list = list([5, 8, 'Tom', 7.50])

# Using extend()
my_list.extend([25, 75, 100])
print(my_list)
# Output [5, 8, 'Tom', 7.5, 25, 75, 100]
```





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**Process finished with exit code 0

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**Removing Specific items from the List

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*Use the pop() method to remove the item at the given index.

*The pop() method removes and returns the item present at the given index.

*Remove the last item from the list if the index number is not passed.

my_list = list([2, 4, 6, 8, 10, 12])

# remove item present at index 2

my_list.pop(2)

print(my_list)

# Output [2, 4, 8, 10, 12]

# remove item without passing index number

my_list.pop()

print(my_list)

# Output [2, 4, 8, 10]
```

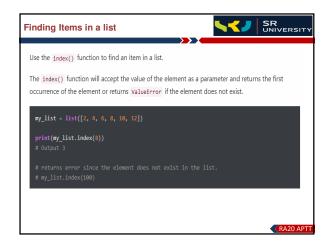
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Removing All Items

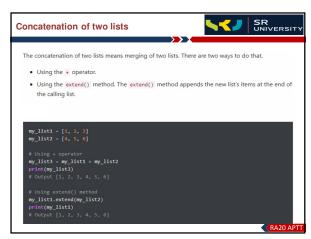
*Use clear() method to remove all items from the list.

my_list = list([2, 4, 6, 8, 10, 12])

# clear list
my_list.clear()
print(my_list)
# Output []

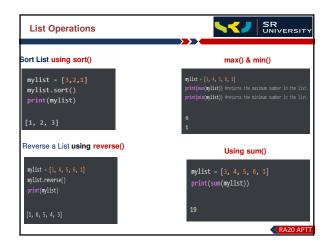
# Delete entire list
del my_list
```











```
nestedlist = [[2,4,6,8,10],[1,3,5,7,9]]

print("Accessing the third element of the second list",nestedlist[1][2])

for i in nestedlist:
    print("list",j,"elements")
    for j in i:
        print(j)

Accessing the third element of the second list 5
list [2, 4, 6, 8, 10] elements
2
4
6
8
10
list [1, 3, 5, 7, 9] elements
1
3
5
7
9
```



