

List Methods #2

- The methods used to remove elements from a list are

`pop([])`, `remove(x)` and `clear()`

`pop([])`

- It will delete the last element from a list if index is not given
- By mentioning any index of a list in `pop()` that particular element will be deleted

```
>>>
>>> l1=[5,6,7,8]
>>> l1.pop()
8
>>> l1
[5, 6, 7]
>>> l1.pop(0)
5
>>> l1
[6, 7]
>>> l1.pop(1)
7
>>> l1
[6]
>>> |
```

The **del** keyword is used to delete an element from a list , slicing works for del keyword , we can also delete a particular element by mentioning the index number

```
>>>
>>> L1= [5, 6, 7, 8, 9]
>>> del L1[3]
>>> L1
[5, 6, 7, 9]
>>> del L1[0:2]
>>> L1
[7, 9]
>>> |
```

remove(x)

- It search a particular element from a list and remove it if not found it gives an error
- If duplicates are present then it removes the 1st occurrence of the duplicate from the list

```
>>> L1 = [5, 6, 7, 5, 6, 7]
>>> L1.remove(6)
>>> L1
[5, 7, 5, 6, 7]
>>> L1.remove(10)
Traceback (most recent call last):
  File "<pyshell#9>", line 1, in <module>
    L1.remove(10)
ValueError: list.remove(x): x not in list
>>>
```

Clear()

- It will clear the entire list
- Even using slicing we can clear a list
- Delete can also be used to delete a list

```
>>> L1
[5, 7, 5, 6, 7]
>>> L1.clear()
>>> L1
[]
>>> L1 = [5, 6, 7, 8, 9, 10]
>>> del L1[:]
>>> L1
[]
>>>
```