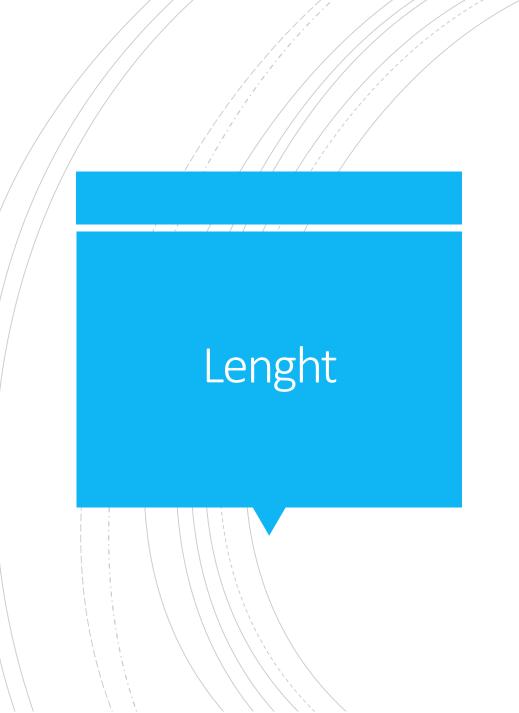
List Functions

Access Item in list

thislist = ["apple", "banana", "cherry"] print(thislist[1])

Changing the elements

thislist = ["apple", "banana", "cherry"]
thislist[1] = "blackcurrant"
print(thislist)



thislist = ["apple", "banana", "cherry"] print(len(thislist))

```
Python 3.6.4 Shell — □
File Edit Shell Debug Options Window Help
```

Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017, 06:54:40) [MSC v.1900 64 bit (AMD64)] on win32

Type "copyright", "credits" or "license()" for more information.

>>> l=[1,2,3,4,5]

>>> dir(l)

['__add__', '__class__', '__contains__', '__delattr__', '__delitem__', '__dir__', '__doc__', '__eq__', '__format__', '__ge__', '__
getattribute__', '__getitem__', '__gt__', '__hash__', '__iadd__', '__imul__', '__init__', '__init__subclass__', '__iter__', '__le__

_', '__len__', '__lt__', '__mul__', '__new__', '__reduce__', '__reduce__ex__', '__repr__', '__reversed__', '__rmul__'

, '__setattr__', '__setitem__', '__sizeof__', '__str__', '__subclasshook__', 'append', 'clear', 'copy', 'count', 'extend', 'index', 'ins

ert', 'pop', 'remove', 'reverse', 'sort']

'append', 'clear',
 'copy', 'count',
 'extend', 'index',
 'insert', 'pop',
'remove', 'reverse',
 'sort'

- Append → which is used to add the list else which is used to merge the list in another list
- Clear → Clear the list
- Copy →It gives the copy of the list
- Count → Element count in list
- Extend → which is used to add the elements in List
- Index → --- it will used to find the word available in the list. in index it provide the first occurance
- Pop → Remove the last element and display the removed element
- Insert → which is used to insert the element
- Remove → remove particular element
- Reverse → revers the given element in list
- Sort →Sort the list

Append Example

```
list=['a','b','c']
Append Example 1:
list.append(['d','e','f'])
print(list)
Output:
['a', 'b', 'c', ['d', 'e', 'f']]
Append Example 2:
list.append(['Python','Programming'])
print(list)
Output:
```

['a', 'b', 'c', 'd', 'e', 'f', ['d', 'e', 'f'], ['Python', 'Programming']]

Nested List

```
>>> L1 = [ 1, [73,89,42,32], 62, [24,32], 99 ]
>>> L1[1] = [73,89,42,32]
>>> L1[1][1] = 89
>>> print(L1)
[1, [73, 89, 42, 32], 62, [24, 32], 99]
>>> print(L1[1])
[73, 89, 42, 32]
>>> print(L1[0])
>>> print(L1[0])
>>> L1[0]=45
>>> print(L1)
[45, [73, 89, 42, 32], 62, [24, 32], 99]
>>> L1[1][0]=34
>>> print(L1)
[45, [34, 89, 42, 32], 62, [24, 32], 99]
>>>
```

Clear Example

```
>>> l.clear()
>>> l
[]
>>> # Two ways possible
>>> del l[:]
>>> l
```

>>>

Copy Example new=old

Method 1: (Shallow Copy)

List=[1,2,3,4,5]

New= List

Print(New)

[1,2,3,4,5]

Method 2: (Deep Copy)

X=list.copy()

Print(X)

[1,2,3,4,5]

Count list.count(eleme nt)

```
>>> x=["hai","hello","Python"]
>>> x.count("h")
0
>>> x.count("hai")
>>> list=[1,2,3,4,5]
>>> list.count(1)
>>> list.count(2)
>>>
```

Extend Example

```
list=['a','b','c']
Extend Example 1:
list.extend(['d','e','f'])
print(list)
Output:
['a', 'b', 'c', 'd', 'e', 'f']
Extend Example 2:
list.extend(['Python','Programming'])
print(list)
Output:
['a', 'b', 'c', 'd', 'e', 'f', 'Python', 'Programming']
```

Insert() list.insert(Index, value)

list.insert(0,"Tech Wyvern") #0---> This is the Index
print(list)
Output:
['Tech Wyvern', 'a', 'b', 'c', 'd', 'e', 'f', ['d', 'e', 'f'], 'Python',
'Programming']]



```
List=['Tech Wyvern', 'a', 'b', 'c', 'd', 'e', 'f', ['d', 'e', 'f'], 'Python', 'Programming']]

Example 1:
```

list.index("a")
output:

Example 2:

list.index("d")

In list d occur 2 times but it will provide the first occurrence output:

4

Remove()

```
List=['Tech Wyvern', 'a', 'b', 'c', 'd', 'e', 'f', ['d', 'e', 'f'], 'Python', 'Programming']]

list.remove("d")

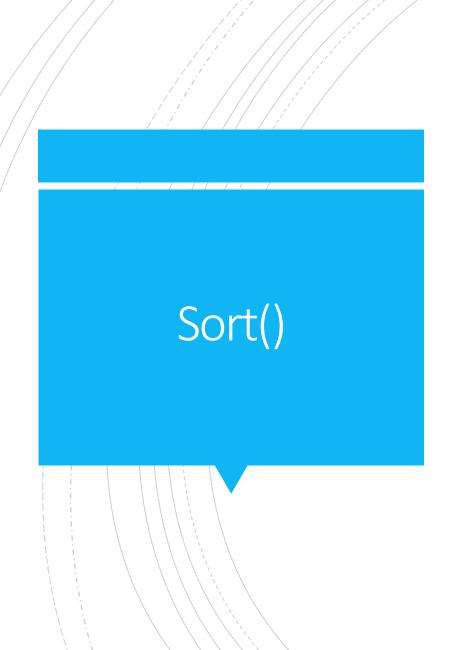
print( list)

Output:

['Tech Wyvern', 'a', 'b', 'c', 'e', 'f', ['d', 'e', 'f'], 'Python', 'Programming']
```

Reverse()

```
>>> x=["hai","hello","Python"]
>>> x.reverse()
>>> print(x)
['Python', 'hello', 'hai']
>>>
```

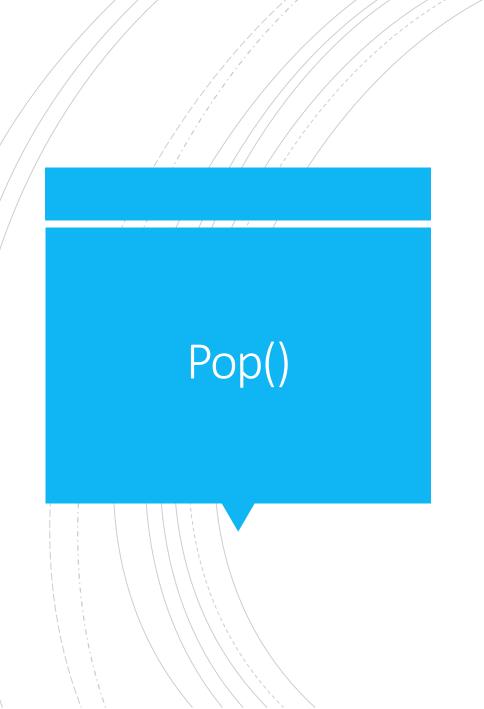


```
>>> x=[2,3,41,2,3,4,1,2]
```

>>> x.sort()

>>> x

[1, 2, 2, 2, 3, 3, 4, 41]



List=['Tech Wyvern', 'a', 'b', 'c', 'd', 'e', 'f', ['d', 'e', 'f'], 'Python', 'Programming']]

list.pop()

Output:

'Programming'