Python List Methods

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Adding values to a List

• append(obj) – adds/appends an object to the list >>> colors = [] >>> colors.append("Orange") >>> colors.append("Green") >>> print(colors) ['Orange', 'Green'] • extend(sequence) – adds sequence to the list >>> colors.extend(("Blue", "Red")) >>> print(colors) ['Orange', 'Green', 'Blue', 'Red']



Adding values to a List

insert(index, obj) – inserts object at the index
 >>> colors.insert(1,"Indigo")
 >>> print(colors)
 ['Orange', 'Indigo', 'Green', 'Blue', 'Red']



Remove values from a List

- remove(obj) removes the object from the list
- >>> colors.remove("Orange")
- >>> print(colors)
- ['Indigo', 'Green', 'Blue', 'Red']
- pop() removes and returns last item
 - If index specified, removes item from the index
- >>> colors.pop()
- 'Red'
- >>> colors.pop(1)
- 'Green'



Remove values from a List

clear() – clear the list contents>>> colors.clear()>>> print(colors)

More List methods

 count(obj) – returns the number of occurrences of the object in the list

```
>>> marks = [43, 45, 32, 43, 41]
>>> marks.count(43)
```

• copy() – returns a copy of the list

```
>>> marks2 = marks.copy()
```



More List methods

- reverse() reverse the list
- >>> numbers = [3,6,2,9,1]
- >>> numbers.reverse()
- >>> print(numbers)
- [1, 9, 2, 6, 3]

- sort() # reverse = True, sort in descending order
- >>> numbers.sort()
- >>> print(numbers)
- [1, 2, 3, 6, 9]



More List methods

• index(obj) – returns the index of the object in the list

```
>>> numbers = [11,12,13,14,15]
```

>>> print(numbers.index(13))

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Nested List

• A list containing lists as its item.

```
>>> numbers = [2, 4, [1,2,3], [5,6]]
>>> numbers
[2, 4, [1, 2, 3], [5, 6]]
>>> numbers[2]
[1, 2, 3]
>>> numbers[2][2]
>>> len(numbers)
```

