Adding Elements to a List

Elements can be added to a list in different ways, following are the methods to add elements to a list.

- 1. append()
- 2. insert()
- 3. extend()





append() Method

- A built-in method used to add an item at the end of a list.
- o Syntax: list.append(value)

```
C:\Users\jaspr>python
>>> languages = ['c', 'cpp', 'java']
>>> languages
['c', 'cpp', 'java']
>>> languages.append('python')
>>> languages
['c', 'cpp', 'java', 'python']
>>>
```



append() Method

Duplicate append() method to add multiple items.

```
C:\Users\jaspr>python
>>> languages = ['c', 'cpp', 'java', 'python']
>>> languages.append('ruby')
>>> languages.append('javascript')
>>> languages.append('php')
>>> languages
['c', 'cpp', 'java', 'python', 'ruby', 'javascript', 'php']
>>>
```



append() Method

A list as an item can be added.

Using append() method, we can not add more than one item to to specified list.- • x

```
C:\Users\jaspr>python
>>> languages = ['c', 'cpp', 'java']
>>> languages.append(['python', 'javascript'])
>>> languages
['c', 'cpp', 'java', ['python', 'javascript']]
>>>
```



insert() Method

- A built-in method used to add an item at a specific position.
- o Syntax: list.insert(position, value)

```
C:\Users\jaspr>python
>>> languages = ['c', 'cpp', 'java']
>>> languages.insert(0, 'python')
>>> languages
['python', 'c', 'cpp', 'java']
>>>
```



extend() Method

- o A built-in method used to add all items of one list in another list.
- o Syntax: list1.extend(list2)

```
C:\Users\jaspr>python
>>> languages = ['c', 'cpp', 'java']
>>> more_languages = ['python', 'javascript']
>>> languages.extend(more_languages)
>>> languages
['c', 'cpp', 'java', 'python', 'javascript']
>>>
```

