Appendix B: Working With Lists

	Description	Sample Code	Output
append( )	Add item to the end of a list	myList = [‘a’, ‘b’, ‘c’, ‘d’] myList.append(‘e’) print (myList)	[‘a’, ‘b’, ‘c’, ‘d’, ‘e’]
del	Remove items from a list	myList = [‘a’, ‘b’, ‘c’, ‘d’, ‘e’, ‘f’, ‘g’, ‘h’, ‘i’, ‘j’, ‘k’, ‘l’] #delete the third item (index = 2) del myList[2] print (myList) #delete items from index 1 to 5-1 del myList[1:5] print (myList) #delete items from index 0 to 3-1 del myList [:3] print (myList) #delete items from index 2 to end del myList [2:] print (myList)	 [‘a’, ‘b’, ‘d’, ‘e’, ‘f’, ‘g’, ‘h’, ‘i’, ‘j’, ‘k’, ‘l’] [‘a’, ‘g’, ‘h’, ‘i’, ‘j’, ‘k’, ‘l’] [‘i’, ‘j’, ‘k’, ‘l’] [‘i’, ‘j’]
extend( )	Combine two lists	myList = [‘a’, ‘b’, ‘c’, ‘d’, ‘e’] myList2 = [1, 2, 3, 4] myList.extend(myList2) print (myList)	[‘a’, ‘b’, ‘c’, ‘d’, ‘e’, 1, 2, 3, 4]
in	Check if an item is in a list	myList = [‘a’, ‘b’, ‘c’, ‘d’] ‘c’ in myList ‘e’ in myList	 True False
insert( )	Add item to a list at a particular position	myList = [‘a’, ‘b’, ‘c’, ‘d’, ‘e’] myList.insert(1, ‘Hi’) print (myList)	[‘a’, ‘Hi’, ‘b’, ‘c’, ‘d’, ‘e’]
len( )	Find the number of items in a list	myList = [‘a’, ‘b’, ‘c’, ‘d’] print (len(myList))	4

pop( )	Get the value of an item and remove it from the list
	Requires index of item as the parameter
		myList = [‘a’, ‘b’, ‘c’, ‘d’, ‘e’]
		
		#remove the third item
		member = myList.pop(2)
		print (member)
		print (myList)
		
		#remove the last item
		member = myList.pop( )
		print (member)
		print (myList)
			
			c
			[‘a’, ‘b’, ‘d’, ‘e’]
			
			e
			[‘a’, ‘b’, ‘d’]

remove( )	Remove an item from a list. Requires the value of the item as the parameter.	myList = [‘a’, ‘b’, ‘c’, ‘d’, ‘e’]
		
		#remove the item ‘c’
		myList.remove(‘c’)
		print (myList)
			
			[‘a’, ‘b’, ‘d’, ‘e’]

reverse( )	Reverse the items in a list	myList = [1, 2, 3, 4] myList.reverse() print (myList)	[4, 3, 2, 1]
sort()	Sort a list alphabetically or numerically	myList = [3, 0, -1, 4, 6] myList.sort() print(myList)	[-1, 0, 3, 4, 6]
sorted()	Return a new sorted list without sorting the original list. Requires a list as the parameter	myList = [3, 0, -1, 4, 6] myList2 = sorted(myList) #Original list is not sorted print (myList) #New list is sorted print (myList2)	 [3, 0, -1, 4, 6] [-1, 0, 3, 4, 6]
+	Concatenate List	myList = [‘a’, ‘b’, ‘c’, ‘d’] print (myList + [‘e’, ‘f’]) print (myList)	[‘a’, ‘b’, ‘c’, ‘d’, ‘e’, ‘f’] [‘a’, ‘b’, ‘c’, ‘d’]
*	Duplicate a list and concatenate it to the end of the list	myList = [‘a’, ‘b’, ‘c’, ‘d’] print (myList*3) print (myList)	['a', 'b', 'c', 'd', 'a', 'b', 'c', 'd', 'a', 'b', 'c', 'd'] [‘a’, ‘b’, ‘c’, ‘d’]

Note: The + and * symbols do not modify the list. The list stays as [‘a’, ‘b’, ‘c’, ‘d’] in both cases.