

U6 - Lists Notes

Updated: 12/03/2024

Lists

A list allows you to store / save _____ values in one variable. • A list can hold _____ data types	Write the Code Here:
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Declare / Initialize / Printing a List

Declare a List	
What establishes a variable as a list vs. the other data types, is the set of _____ brackets ([]). • To declare and _____ any items to the list, is the variable name and empty brackets.	Write the Code Here:
Initialize a List	
To declare and _____ (provide some initial data) is the following syntax:	Write the Code Here:
Printing a List	
If you want to just print a list in Python the syntax is just the _____ name in a _____ statement:	Write the Code Here:

Iterating Through a List

If you want to print or look at each _____ in a list you can use a for loop.	Write the Code Here: :
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Selecting a Value In a List

The following is the _____ of an item in a list. Python (like other programming languages) first value is at index 0 (zero).

```
myList = ["cat", 5, "dog", 4.5]
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0	1	2	3
"cat"	5	"dog"	4.5

To reference an individual value from a list, you use the _____ position of that value. For example to reference "cat" from the following list:	Write the Code Here:
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Adding an Element to a List

append() Method	
The append() method adds an element to the _____ of the list.	Write the Code Here:

insert() Method	
The insert() method allows you to _____ where to insert an element into a list. The values passed to the function are the _____ and then the value.	Write the Code Here:

Changing a List Value

Change a List Value	
To change a specific value in a list you would use the values _____ position to reassign the value at that _____.	Write the Code Here:

Removing a Value - pop()	
The most efficient way is the pop() method, which will remove the _____ item from the list. The pop() method not only _____ the last item from the list, but you can also see that _____ if you save it to a variable.	Write the Code Here:

Removing a Value - remove()	
If you want to remove the _____ occurrence of a specific value, you can use the remove() method.	Write the Code Here:
Removing a Value - del	
The del method will either delete the _____ list or a _____ element based on the index specified.	Write the Code Here:

List Methods

sort() Method	
The sort() method will sort the list in _____ order from left to right.	Write the Code Here:
reverse() Method	
The reverse() method will take the list and take the _____ item in the list and make it the _____, the second to last item and make it the second item, etc.	Write the Code Here:

count() Method	
The count() method returns an _____ of the number of times a character / word is in the list.	Write the Code Here:
len() Method	
The Python List len() method is used to compute the _____ of a Python List.	Write the Code Here: