1. What exactly is []?

Ans: that is a square bracket which denotes a list.

1. In a list of values stored in a variable called spam, how would you assign the value 'hello' as the third value? (Assume [2, 4, 6, 8, 10] are in spam.)

Ans: below is the code to answer this question.

Graphical user interface, text, application, email

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Let's pretend the spam includes the list ['a', 'b', 'c', 'd'] for the next three queries.

1. What is the value of spam[int(int('3' \* 2) / 11)]?

Ans : ‘d’

1. What is the value of spam[-1]?

Ans: ‘d’

1. What is the value of spam[:2]?

Ans: [‘a’,’b’]

Let's pretend bacon has the list [3.14, 'cat' ,11, 'cat', True] for the next three questions.

1. What is the value of bacon.index('cat')?

Ans: 1

1. How does bacon.append(99) change the look of the list value in bacon?

Ans:



1. How does bacon.remove('cat') change the look of the list in bacon?

Ans:



1. What are the list concatenation and list replication operators?

Ans: + and \*

1. What is difference between the list methods append() and insert()?

Ans: list.append() function inserts an element in the end. Whereas, list.index() allows you to add an element but with the index location.

1. What are the two methods for removing items from a list?

Ans : list.remove() and list.pop()

1. Describe how list values and string values are identical.

Ans: as list can contain strings which can make it identical to strings.

For example:

Graphical user interface, application

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1. What's the difference between tuples and lists?

Ans: Lists are mutable meaning the values of lists can be changed but tuples are immutable meaning the values can’t be changed.

1. How do you type a tuple value that only contains the integer 42?

Ans:

Graphical user interface, application, Word

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1. How do you get a list value's tuple form? How do you get a tuple value's list form?

Ans: we can use the tuple() and list() to achieve the task.

1. Variables that "contain" list values are not necessarily lists themselves. Instead, what do they contain?

Ans: they contain integer and strings.

1. How do you distinguish between copy.copy() and copy.deepcopy()?

Ans: copy.copy() is the shallow copy and the other one is a deep copy.

Deep copy allocates a new memory location to the copied datatype whereas shallow copy refers to the location where the originally created datatype is stored.