1. What exactly is []?

**Answer : its an empty list of .**

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.)

**Answer : spam.insert(2,’hello’)**

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)]?

**Answer : d**

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

**Answer : d**

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

**Answer : [‘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')?

**Answer : 1**

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

**Answer : it will add the element at the last of the list. bacon=[3.14,’cat’,11,’cat’,True,99]**

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

**Answer : it will remove first occurrence of ‘cat’. bacon = [3.14,11,’cat’,True,99]**

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

**Answer : concatenation is done using + and replication is done using \***

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

**Answer : with append , element will be added at last of the list elements and insert will add the element at specified index in the list.**

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

**Answer : remove and pop**

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

**Answer : both uses indexing to access and store.**

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

**Answer : tuples are immutable and list is mutable**

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

**Answer : using tuple name**

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

**Answer : need to convert tuple into list to get list values from tuple and list need to convert into tuple to access tuple values from list**

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

**Answer : it can contain any type of data.**

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

**Answer : when copy is used,modification done in one list will be reflected in other list from which the elements are copied. Deepcopy will create a list and changes will not affect in other list.**