1. What exactly is []?

Ans. A Empty 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. spam[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)]?

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. [3.14, 'cat,' 11, 'cat,' True,99]

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

Ans.[3.14, 11, 'cat,' True]

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

Ans. Concatination -> + , replication -> \*

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

Ans. append() can add value at the end of list While insert() can add value anywhere in list according to index mentioned.

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

Ans. Remove() method and del statement.

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

Ans.

* 1. Both can be concatenated and replicated
* Both have indexes and can be sliced
* Both can be used in for loops

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

Ans. Tuples are immutable while list are mutable

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

Ans. (42,)

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

Ans. Tuple() , list()

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

Ans. They contain address or reference to list

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

Ans. Copy.copy() will perform shallow copy of the list this new list will reflect changes in original list while copy.deepcopy() will perform deepcopy of the list and hence data in list are copied and stored in different address which disable changes made in new copy to reflect in old copy.