1. What exactly is []?

[] – is used for creating the dataset called list. It indicates start and end of a list.

e.g –list l1 = [2,4,6,3,6,3,9,5,4,6,2,6]

2. 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.)

Spam[2] = ‘hello’

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

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

spam[int(int('3' \* 2) / 11)] = ‘d’ ....... int(int('3' \* 2) / 11) = 3

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

spam[-1] = ‘d’

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

['a', 'b']

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

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

1

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

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

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

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

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

The operator for list concatenation is +, whiles the operator for replication is \*.

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

The difference is that with append new data is added at end of the list. With insert(position, new\_data) data in the position you want.

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

Del[] and remove() methods used for removing items from a list.

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

List and string values both are iterable and indexable.

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

Data in Tuples are enclosed in () while data in lists are enclosed in [].Lists has variable length, tuple has fixed length. List has mutable nature, tuple has immutable nature.

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

A = (42)

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

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

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