1. What exactly is []?

**Its a list - brackets of an empty list.**

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.insert(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)]?

**‘d’**

4. What is the value of 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 in bacon?

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

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

**concat:- +; replicate: \***

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

**append - adds element to the list in its last position**

**insert - add element to the list in the desirable position, we specify it as a first argumnet in the method**

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

**.remove()**

**.pop()**

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

**List and strings elements are ordered collections of characters, wwhere each value(element) is specified by an index.**

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

**Tuples are unmutable - cannot be changed.**

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

**x = (42, )**

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

**list(x), tuple(x)**

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()?