1. What exactly is []?

Ans: square braces indicates list in python.

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.)

Ans: 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)]?

Ans: a

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

Ans: d

5. 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.

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

Ans: 1

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

Bacon=[3.14, 'cat,' 11, 'cat,' True’,99]

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

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

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

Ans: Let’s say we have 2 lists. They are list1 and list2

We can concatenate them by using:

List3=list1+list2

Or we can use extend to concat two lists

list1.extend(list2)

To replicate list we can do following:

list1.copy()

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

Ans: append() does not need index parameter and add a element just at the end of the list.

Insert() need index as well as value. It inserts that value in the given index.

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

Ans: list.remove(element) will remove the element from the list

del list will remove whole list

del list[index] will remove the specific element from the list

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

Ans: yes, as both can be sliced and accessed using index.

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

Ans: list can be changed anytime. But after assignment tuple cannot be changed.

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

Ans: my\_tpl=tuple([42])

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

Ans: list1=[1,2,3,4,5,6]

To get tuple version of it we use following:

my\_tpl=tuple(list1)

To get the list value of tuple we use following:

list(my\_tpl)

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

Ans: characters

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

Ans: copy() makes a shallow copy of data

Whereas deepcopy() actually uses different address for assigning those data