1. What exactly is []?

Answer: This is empty list for python language.

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.)

Answer: 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)]?

Answer: ‘d’

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

Answer: ‘d’

5. 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.

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

Answer: 1

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

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

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

Answer: [3.14,11,’cat’,True,99]

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

Answer: by using list concatenation(+) operator to add two elements. Where list replication(\*) operator Is used to repeat element multiple times

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

Answer: append() method appends a list by position new element at end of the list where insert() method offers freedom to append list at any position of the list

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

Answer: remove() and pop()

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

Answer: Vague

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

Answer: list is mutable where tuple is immutable

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

Answer: my\_tuple=(42,)

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

Answer : using list() and tuple() method

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()?

Answer: copy.copy() just copy top level of object where copy.deepcopy copy not only top level of object but also dives into nested objects.