1. What exactly is []?

Ans: This is list funtion and we can extract value in this list with the help of [].

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.)

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

Ans. spam = [2, 4, 6, 8, 10]

we have store hello in third places, we can use spam[2] and the final result is spam = [2, 4, 'hello, 6, 8, 10]

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

Ans. '3'\*2/11 = 33/11 = 3 this is already int.

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

Ans. Ex: spam= [3.14, 'cat,' 11, 'cat,' True]

spam[-1] = [True] Negative last count

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

Ans. : Ex: spam= [3.14, 'cat,' 11, 'cat,' True]

spam[:2] = [3.14, 'cat'] it is use for extract the value from the list

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. bacon = [3.14, 'cat', 11, 'cat', True]

bacon.index('cat') = 1

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

Ans. Append means insert a data from last end

bacon = [3.14, 'cat', 11, 'cat', True, **99**]

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

Ans. bacon = [3.14, 11, 'cat', True, **99**]

remove function work on only one time use, if you use another time the completly cat remove in this list

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

Ans. List concatenation is merger of list (+) & list replication is multiply of the list, (\*)

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

Ans. In the List append method insert a value from the end side and insert method is use for insert a value between start point to end point (everywhere).

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

Ans. we use two removing method in the list

bacon.remove () & bacon.pop()

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

Ans. Mostly mehod are same in both lists and strings can be passed to len(), have indexes and slices, concatenated or replicated.

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

Ans. List is Mutable (replace one data to another data) but in case tuple is not Mutable.

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

Ans. in tuple we have use () and the value is (42)

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

Ans. t = ([3,4,5,6], [4,6,65,7],[54,54,89,45], "govind", 35.56, 6+6j, True)

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

Ans. contain references to list values.

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

Ans. copy.copy() function is shallow copy of the list and copy.deepcopy() function is inside a copy in the list.