1. What exactly is []?

>> It is a square bracket.Used to store items in 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[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)]?

>> The vlaue is 'd'.

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

>> 'd'

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

>>['a','b','c']

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, 'cat', 11, True,99]

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

List concatenation operator is >> '+'

List replication operator is >> '\*'

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

>> append() :- It adds an item at last position of list.Only the value which is going to insert into list is passes in it.

insert() :- In this method there is position of value also passes for inserting the value.

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

>> remove() and Pop()

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

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

>> Tuples are the immutable , ordered collection data type

List are mutable , orderes collection data type

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

>> tup1 = (42,)

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

>>To get a list value's tuple form in Python, we can use the tuple() function

>> To get a list value's list form in Python, you can use the list() function

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()?

copy.copy() referce to the original values that is stored in memory,But

copy.deepcopy() created a separate copy of paticular data .