1. What exactly is []?

.It is a list with no elements in it.

1. 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]=”hello”

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

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

Ans : spam=[2, 4, 6, 8, 10, ['a', 'b', 'c', 'd']]

Spam[3] = 8

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

Spam[-1]= ['a', 'b', 'c', 'd']

1. What is the value of spam[:2]?
   1. [2,4]

Let's pretend bacon has the list [3.14, 'cat,' 11, 'cat,' True] for the next three questions.

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

Ans. 1

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

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

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

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

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

Ans : + and \*

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

Append : add value on end.

Insert : can add value at any index

1. What are the two methods for removing items from a list?
   1. Del statement or remove method
2. Describe how list values and string values are identical.
   1. We can perform all operations of list on strings as well.
3. What's the difference between tuples and lists?
   1. Tuples are immutable and lists are mutable
4. How do you type a tuple value that only contains the integer 42?
   1. (42,)
5. How do you get a list value's tuple form? How do you get a tuple value's list form?
   1. Tuple() ,list()

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

a. address of list

1. How do you distinguish between copy.copy() and copy.deepcopy()?
   1. copy.copy() – sallow copy of list which has  references into it to the objects found in the original.

Deepcopy () –it copies values of objects of original list