1. What exactly is []?

**Ans – It refers empty list in Python.**

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.)

**Ans – spam.insert(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 - d**

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

**Ans - d**

1. 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.

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, True, 99]**

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

**Ans - The operator for list concatenation is +, while the operator for replication is \***

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

**Ans – append() – adds the value to the list at end where as insert() - inserts the value to the list in specified index position.**

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

**Ans – remove() and pop().**

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

**Ans – Both are sequences.**

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

**Ans – Lists are mutable, and tuples are immutable.**

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

**Ans - (42,)**

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

**Ans – List value in tuple form - tuple(list\_name)**

**Tuple value in list form – list(tuple\_name)**

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

**Ans - Variables will contain references to list values rather than list values themselves.**

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

**Ans - Shallow Copy stores the references of objects to the original memory address. Deep copy stores copies of the object's value.**