1. What exactly is []?

[] is used to create a list which are separated by commas.

define list literals declared and will be used in program.

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.)

To assign a value “Hello “as the third value – Spam [2]

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)]?

The answer after execution of the above statement is 3, it will be ‘33’/11.

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

Negative indexes count from the end. Therefore, spam [-1] will evaluate to ‘d’.

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

The answer after execution of the above statement will be [‘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')?

Value is 1.

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

If we append (99) into the bacon list the look of it will be [ 3.14, ‘cat’ , 11, ‘cat’, True, 99]

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

If we remove cat the look of the list will be [3.14, 11, 'cat', True].

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

The operator for concatenation is + and replication is \*.

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

append () will add values at the end of the list whereas insert will add them anywhere in the list.

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

The del (delete) statement and the remove () list method are used to remove values from a list.

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

List and strings values can be concatenated, replicated, used with and & not operators, can be passed to len() , used in loops and have indexes and slices.

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

Lists – Mutable (values can be added, removed or changed).

Tuples – Immutable

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

Tuple – (42,)

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

We can use tuple () and list () functions.

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

They contain reference to the list values used in programming.

1. How do you distinguish between copy.copy() and copy.deepcopy()?
2. copy. Copy () - a shallow copy of a list
3. copy. deep copy () function will do a deep copy of a list. That is, only copy.deepcopy() will duplicate any lists inside the list.