1. What exactly is []?

Ans : [] is an empty list .Lists are used to store multiple items in a single variable .

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 = [ 2,4,6,8,10]

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 : ‘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, 'cat,' True]

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

Ans : The list concatenation is + and list replication is \*

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

Ans : append() will add the value only to the end while insert() will add the value any where in the list .

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

Ans : The del statement and the remove() list method are two ways to remove values from a list.

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

Ans : Both list and strings can be passed to len() , both have indexes and slices , be used in fgor loops , both can be concatenated or replicated , both cab be used with the in and not in operators .

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

Ans : Lists are mutable . They are written in square brackets [] .

Tuples are immutable . They are written using parentheses ()

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 : tuple()

List()

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

Ans : They contain references to list values.

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

Ans : The copy.copy() function will do a shallow copy of a list , while copy.deepcopy() function will do a deep copy of a list. i.e. Only copy.deepcopy() will duplicate any list inside the list .