1. What exactly is []?

ANS: []is a bracket used to define a 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 = [2, 4, 6, 8, 10]

Spam.insert(3,'hello')

Inserted Value : spam = [2, 4, 6, 'hello', 8, 10]

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: This will give the value of 3.

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

ANS : spam =['a', 'b', 'c', 'd']

Value of spam[-1] is 'd'

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

Ans : Value of spam[:2] is ['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 : value of bacon.index('cat') is 1.

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

Ans : Modfied list will be :

Bacon=[3.14, 'cat,' 11, 'cat,' True,99]

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

Ans: bacon = [3.14,' 11, 'cat,' True] – It removes the first matching element from the list.

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

Ans : + for concatenation and \* for replication.

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

Ans : append() function adds value at the end of the list whereas insert() function helps place value at given index within the list.

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

Ans : pop() and remove() are the 2 functions to remove elements from the list.

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

Ans: List is a set of elements which are treated as String character, that’s why String and list are identical.

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

Ans : Tuples are non-mutable but lists are mutable object.

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

Ans: tup=(41)

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

Ans : list1 =[‘a’,’b’,’c’]

Tup1 =(1,2,3)

List 🡪 tuple

Tuple(list1) , Output : (‘a’,’b’,’c’)

Tuple🡪 List

List(tup1) , Output : [1,2,3]

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

Ans : Variables will contain reference to list value instead of list values.

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

Ans : A copy.copy() constructs a new compound object and then inserts references into it to the objects found in the original. A copy.deepcopy() constructs a new compound object and then, recursively, inserts copies into it of the objects found in the original.