1. What exactly is []?

ANSWER: In python [] is used as list bracket.

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.)

ANSWER: 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)]?

ANSWER: d

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

ANSWER: d

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

ANSWER: [‘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')?

ANSWER: 1

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

ANSWER: [3.14, ‘cat’, 11, ‘cat’, True, 99]

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

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

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

ANSWER: List concatenation is the process in which we add two list and make one single list with all elements of both list. (we use + for concatenation). While the replication operator \* repeats a list a given number of times.

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

ANSWER: Append add the element after last index of list, whereas Insert add element in list according to given index.

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

ANSWER:

1. Pop method – it is used where we want to remove or delete value by index.
2. Remove method – it is used to remove or delete value by its name .

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

ANSWER: The similarity between List and String values in Python is that both are sequences.

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

ANSWER: List is mutable while tuples are immutable .

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

ANSWER: (42,)

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

ANSWER: Let’s take, A=[ 3,4,5,6,66 ]

B=( A, ) Here values of ‘A’ will be store as a tuple in ‘B’.

To store tuple values in list format we will use

C=[B ] , here values of B will store inside C as list.

Another method to swap values o f tuple and list and vice versa, is by using for loop. For Example,

A= [ 1,3,5,55,555]

b= []

for i in A:

b.append(i)

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

ANSWER: Variables will contain reference to list values rather than values themselves .

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

ANSWER: copy() create reference to original object which means if we change copied object , we will change the original object while deepcopy() creates new object , and changing it will not effect the original object.