1. What exactly is []?

Ans:

[] Is index bracket used to define list in Python.

2. 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:

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

Then to assign ‘hello’ at third we will use insert function as follow :

Spam.insert(2,’hello’)

Let's pretend the spam includes the list ['a', 'b', 'c', 'd'] for the next three queries.

3. What is the value of spam[int(int('3' \* 2) / 11)]?

Ans:

‘d’

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

Ans:

‘d’

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

Ans:

‘c’

Let's pretend bacon has the list [3.14, 'cat,' 11, 'cat,' True] for the next three questions.

6. What is the value of bacon.index('cat')?

Ans:

1

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

Ans:

[3.14, 'cat', 11, 'cat', True,99

]

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

Ans:

[3.14, 11, 'cat', True]

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

Ans:

In case of list concatenation operation we can add one list at end of other list vs in case of List replication operation we replicate the existing value .

Following are concatenation and replication operators : + , += for concatenation and \* for replication.

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

Ans:

In case of append() we can add desired value at last of existing list vs in case of insert() we can add desired value at index nos we want to .

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

Ans:

We can use items out of list by using pop and remove.

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

Ans:

Both of them can be identical when we insert items inside ‘ xyz ‘ . using single or double quotes.

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

Ans:

Tuples are inclosed in () vs list in [] and tuple is immutable vs list is mutable .

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

Ans:

We can do so bcz tuple need to have more the one element inside () . So for just one integer in tuple is not possible.

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

Ans:

Did’nt get the question

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

Ans:

They contains various variable type in it like int , str , float etc .

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

Ans:

In case of copy.copy() the item being copied do not recurse and do not create copies of each child items inside list In it any change made in copied object also displayed in the original object vs in case of copy.deepcopy() item being copied are recursed , each child items are copied and changes made in copied items is not displayed in the original object list .