1. What exactly is []?

Ans – is a empty list

Varname = []

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[3]=’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 >>> l=[2,5,8,10]

>>> print([int(int('3'\*2)/11)])

[3]

>>> print(int('3'\*2))

33

>>> 3\*2

6

>>> '3'\*2

'33'

>>>

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

Ans - spam[-1]= 10

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

Ans - spam[:2]=[2,4 ]

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 – balcon.index(‘cat’)=1

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

Balcon.append(99) = [3.14, 'cat,' 11, 'cat,' True,99]

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

Ans – balcon=[3.14, 'cat,' 11, 'cat,' True]

Balcon.remove(‘cat’) = [3.14,11, 'cat,' True]

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

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

Ans - Append is function to use for last of the list element and insert is used by the indexing

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

* + Pop(index)
  + Pop() ,clear()

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

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

Ans – list and tuple is pre-defined function and tuple is immutable and list is mutable

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

Ans -tuple = 42

B=(tuple,)

(42,)

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

>>> l=[2,5,8,10]

>>> print(l,type(l))

[2, 5, 8, 10] <class 'list'>

>>> t = tuple(l)

>>> print(t,type(t))

(2, 5, 8, 10) <class 'tuple'>

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

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

Copy.copy() is the values or the id will be different but in copy.deepcopy() the id values is same by using = operator