1. What exactly is []?

***Empty list***

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.)

***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)]?

***d***

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

***d***

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

***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')?

***1***

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

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

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

***[3.14, 11, 'cat,' True]***

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

***L1+L2 – concatenation operator***

***L1\*4***

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

***append() : This function appends the object at the end of the list.***

***insert() : This function inserts value at a particular location.***

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

***l.remove(“cat”) : This function removes the value “cat” from the list***

***l.pop(): This function removes the value at a particular index.***

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

***The strings and the lists have the lengths, where string length is number of characters and list length is number of items.***

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

***The major difference between the tuples and the lists is the tuples are immutable whereas lists are mutable.***

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

***T = (42,)***

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

***Sample\_list = [1,2,3]***

***Tup1 = tuple(Sample\_list) # converts the list into tuple***

***L = list(Tup1) #converts the tuple into the list***

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

***The variables that contains the list refers to the class list that means that they contain the reference s to the list values.***

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

***The copy() function creates the copy of the object whereas the deepcopy function creates the***

***Real/deep clone of the object.***