ASSIGNMENT 4 PYTHON

1. What exactly is []?

Ans: Means list or empty list

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.)

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)]?

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

Ans: negative index count from the end.

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

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: The list concatenation is + and the list replication is\*

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

Ans: append() add values at the end of the list while insert() add values anywhere in the list.

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

Ans: The two methods for removing items from a list are:

1. remove()
2. del statement

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

Ans: Both have indexes, slices and used in for loop.

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

Ans: Tuples are immutable and use ()

Lists are mutable and use[]

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

Ans: (42,)

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

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()?

Ans: copy.copy() means simple a copy of the list while copy.deepcopy() means deep copy of the list.