1. What exactly is []?
Sol: 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.)
Sol. Spam[2]="hello"
Let's pretend the spam includes the list ['a', 'b', 'c', 'd'] for the next three queries.
0. What is the cooking of an emfired/int/folt 0) / (44)]0.0 child
3. What is the value of spam[int(int('3' * 2) / 11)]? Sol: 'd'
4. What is the value of spam[-1]? Sol:' d'
5. What is the value of spam[:2]? Sol: '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')? 1
7. 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 meaning in bacon?[3.14, 11, 'cat
True]
What are the list concatenation and list replication operators?
Sol: list concatenation +
List replication *
10. What is difference between the list methods append() and insert()?
Sol: append() is used to add an element at end of list whereas insert is used to insert an
element at particular index.



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

Sol: del() and remove() are used to remove an element from list.

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

Sol: both of them:

- A. Have indexes and can be sliced
- B. Can be used in for loop
- C. Can be concatenated or replicated

What's the difference between tuples and lists?

Sol. Adding, removing and updating of element can be done in list but not in tuple. List use [] and tuple uses (). Tuple is immutable and list is mutable.

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

Sol. (42,)

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

Sol. Tuple to list: list() function

List to tuple: tuple () function

- 16. Variables that "contain" list values are not necessarily lists themselves. Instead, what do they contain?
- Sol. They contain reference to list.
- 17. How do you distinguish between copy.copy() and copy.deepcopy()?
- Sol. Copy.copy() will copy a list but copy.deepcopy() can copy list of list or nested list