1. What exactly is []?

Ans:- [] is a list.

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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:- spam.insert(2,”hello”)

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

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

Ans:- [‘a’, ’b’, ’c’, ’d’]

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

Ans:- d

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

Ans:-[‘a’, ‘b’]

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

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

Ans:- 1

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

Ans:- [3.14, 'cat', 11, 'cat',’ True’,99]

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

Ans:- [3.14, 11,’cat’,’ True’]

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

Ans:- list concatenation and list replication operators are ‘+’ and ’\*’.

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

Ans:- append() method appends new input element at the end of the list where as insert() method is to insert element at required position of the list.

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

Ans:- 1)remove()

2)pop()

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

Ans:- As list values were stored inside the [] and lists can store any data type.

String values were stored inside the “” and can stores only string data type.

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

Ans:- tuples are immutable where as lists are mutable.

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

Ans:- tuple = (42)

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

Ans:- We can get a list values in tuple form by list comprehension and tuple values in list form by tuple() method.

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

Ans:- variables will contain references to list values.

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

Ans:- copy.copy() method copies the references into new one where as copy.deepcopy method copies and inserts elements into the new one.

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