1. What exactly is []?

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.)

spam.insert(3,’hello’)

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)]?

Ans: ‘d’

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

Ans: ‘d’

5. 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.

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

Ans: 3

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

Ans: bacon=[3.14,’cat’,11,’cat’,True,99]

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

Ans: bacon=[3.14,11,’cat’,True,99]

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

Ans. L=[] L1=[]

list concatenation=L+L1

list replication=L\*n,, where n is no of times u want to replicate the list

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

Ans. append()- adds the element to the list at last index

Insert()-helps to add element in the list at specific index

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

Ans. Remove(element)-removes the first occurrence of element from the list

Pop(index)- removes and return the element at specific index

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

Ans. 1. Both can be passes into len()

2. both can undergo concatenation and replication operator

3.values stored at indexes

4.can undergo slicing ops

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

Tuple are immutable ,represented by t=()

List are mutable,represented by l=[]

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

Ans. T=(42)

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

Ans. L=[2,3,4] L1=tuple(L)

T= (2,3,4) T1=list(T)

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

Ans. They will contain the reference to the list values

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

Ans. Copy.copy()- will shallow copy the list

Copy.deepcopy()- will do a deep copy of a list .only it will return duplicate list inside a list