1. [] This is an empty list.
2. spam=[2,4,6,8,10]

spam.insert(3,"hello")

1. ‘a’
2. d
3. a,b
4. 1
5. [3.14, 'cat', 11, 'cat', True, 99]
6. [3.14, 11, 'cat', True, 99]

9.  The operator for list concatenation is + .The multiplication operator acts as a replication operator when we have one string and one integer as operands.

10. Append method appends the value at end of the list whereas insert method inserts at a particular index which we specify.

11. pop() method and clear().

12. The values that make up a list are called its elements. Lists are similar to strings, which are ordered collections of characters, except that the elements of a list can have any type and for any one list, the items can be of different types.

13. List are mutable objects and tuples are immutable objects.

14. t(42,)

15.  Using list comprehension and tuple() method.

16. Variables will contain references to list values rather than list values themselves.

17. Deep copy is a process in which the copying process occurs recursively. It means first constructing a new collection object and then recursively populating it with copies of the child objects found in the original. In case of deep copy, a copy of object is copied in other object.