- An individual elements in the list can be accessed using the index
- Lists are mutable sequences which can be used to add, delete, sort a list elements.
- The *sort()* method is used to sort items in the list.
- The *split()* method can be used to split a string into a list.
- Nested list means a list within another list.

Multiple-Choice Questions

1. The statement that creates the list is
   a. superstore = list()
   b. superstore = []
   c. superstore = list([1,2,3])
   d. All of the above
2. Suppose continents = [1,2,3,4,5], what is the output of len(continents)?
   a. 5
   b. 4
   c. None
   d. error
3. What is the output of the following code snippet?
   islands = [111,222,300,411,546]
   max(islands)
   a. 300
   b. 222
   c. 546
   d. 111

4. Assume the list superstore is [1,2,3,4,5], which of the following is correct syntax for slicing operation?
   a. print(superstore[0:])
   b. print(superstore[:2])
   c. print(superstore[:-2])
   d. All of these
5. If zoo = ["lion", "tiger"], what will be zoo * 2?
   a. ['lion']
   b. ['lion', 'lion', 'tiger', 'tiger']
   c. ['lion', 'tiger', 'lion', 'tiger']
   d. ['tiger']
6. To add a new element to a list the statement used is?
   a. zoo. add(5)
   b. zoo.append("snake")
   c. zoo.addLast(5)
   d. zoo.addend(4)
7. To insert the string "snake" to the third position in zoo, which of the following statement is used?
   a. zoo.insert(3, "snake")
   b. zoo. insert(2, "snake")
   c. zoo.add(3, "snake")
   d. zoo.append(3, "snake")
8. Consider laptops = [3, 4, 5, 20, 5, 25, 1, 3], what will be the output of laptops.reverse()?
   a. [3, 4, 5, 20, 5, 25, 1, 3]
   b. [1, 3, 3, 4, 5, 5, 20, 25]
   c. [25, 20, 5, 5, 4, 3, 3, 1]
   d. [3, 1, 25, 5, 20, 5, 4, 3]
9. Assume quantity = [3, 4, 5, 20, 5, 25, 1, 3], then what will be the items of quantity list after quantity.pop(1)?
   a. [3, 4, 5, 20, 5, 25, 1, 3]
   b. [1, 3, 3, 4, 5, 5, 20, 25]
   c. [3, 5, 20, 5, 25, 1, 3]
   d. [1, 3, 4, 5, 20, 5, 25]
10. What is the output of the following code snippet?

```
letters = ['a', 'b', 'c', 'd', 'e']
letters[::-2]
```

   a. ['d', 'c', 'b']
   b. ['a', 'c', 'e']
   c. ['a', 'b', 'd']
   d. ['e', 'c', 'a']

11. Suppose list_items is [3, 4, 5, 20, 5, 25, 1, 3], then what is the result of list_items.remove(4)?
    a. 3, 5, 29, 5
    b. 3, 5, 20, 5, 25, 1, 3
    c. 5, 20, 1, 3
    d. 1, 3, 25

12. Find the output of the following code.

```
matrix= [[1,2,3],[4,5,6]]
v = matrix[0][0]
for row in range(0, len(matrix)):
  for column in range(0, len(matrix[row])):
    if v < matrix[row][column]:
      v = matrix[row][column]
print(v)
```

    a. 3
    b. 5
    c. 6
    d. 33

13. Gauge the output of the following.

```
matrix = [[1, 2, 3, 4],
          [4, 5, 6, 7],
          [8, 9, 10, 11],
          [12, 13, 14, 15]]

for i in range(0, 4):
  print(matrix[i][1])
```

    a. 1 2 3 4
    b. 4 5 6 7
    c. 1 3 8 12
    d. 2 5 9 13

14. What will be the output of the following?

```
data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]
print(data[1][0][0])
```

    a. 1
    b. 2
    c. 4
    d. 5

15. The list function that inserts the item at the given index after shifting the items to the right is
    a. sort()
    b. index()
    c. insert()
    d. append()
16. The method that is used to count the number of times an item has occurred in the list is
    a. count()
    b. len()
    c. length()
    d. extend()

Review Questions