1. What are the data items in the list called?

2. Which method could be used to convert a numeric value to a string?
   a. str
   b. value
   c. num
   d. chr

3. What would be the value of the variable list after the execution of the following code?
   ```python
   list = [1, 2]
   list = list * 3
   ```
   a. `[1, 2] * 3`
   b. `[3, 6]`
   c. `[1, 2, 1, 2, 1, 2]`
   d. `[[1, 2], [1, 2], [1, 2]]`

4. What method is commonly used to add items to a list?
   a. append
   b. index
   c. insert
   d. add

5. Which list will be referenced by the variable number after the execution of the following code?
   ```python
   number = range(0, 9, 2)
   ```
   a. `[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]`
   b. `[1, 3, 5, 7, 9]`
   c. `[2, 4, 6, 8]`
   d. `[0, 2, 4, 6, 8]`
6. What is displayed when the following program is run?
   ```python
   try:
       list = 5 * [0]
       x = list[5]
       print("Done")
   except IndexError:
       print("Index out of bound")
   ```
   a. "Done" followed by "Index out of bound"
   b. "Index out of bound"
   c. “Done”
   d. Nothing displayed

7. What would be displayed by the following code?
   ```python
   list1 = [1, 3]
   list2 = list1
   list1[0] = 4
   print(list2)
   ```
   a. [1, 3]
   b. [4, 3]
   c. [1, 4]
   d. [1, 3, 4]

8. What will be displayed by the following code?
   ```python
   myList = [1, 2, 3, 4, 5, 6]
   for i in range(1, 6):
       myList[i - 1] = myList[i]
   for i in range(0, 6):
       print(myList[i], end = " ")
   ```
   a. 2 3 4 5 6 1
   b. 6 1 2 3 4 5
   c. 2 3 4 5 6 6
   d. 1 1 2 3 4 5
9. What would you use if an element is to be removed from a specific index?
   a. `del` statement
   b. remove method
   c. index method
   d. slice method

10. What method can be used to place an item in the list at a specific index?
    a. append
    b. index
    c. insert
    d. add

11. Which method would you use to determine whether a substring is present in a string?
    a. `endswith(substring)`
    b. `find(substring)`
    c. `replace(string, substring)`
    d. `startswith(substring)`

12. What is the value of the variable `string1` after the execution of the following code?
    ```
    string1 = 'Hello'
    string1 += ' world'
    ```

13. What would be the value of the variable `list1` after the execution of the following code?
    ```
    list1 = [1, 2, 3, 4]
    list1[3] = 10
    ```

14. Each character in a string has a(n) _____________ which specifies its position in the string.

15. Strings are _____________, which means that once a string is created, it cannot be changed.

16. A(n) _____________ is a span of characters that are taken from within a string.
17. The _______________ method returns true if the string contains only numeric digits.

18. The third number in string slicing brackets represents the _______________ value.

19. The _______________ function returns the item that has the lowest value in the sequence.

20. A(n) _______________ is an object that holds multiple items of data.

21. To concatenate two strings s1 and s2 into s3, use ________.

22. Given the string s = “Programming is fun”, answer the following questions.
   
a. What is s[:2]?
   
b. What is s[4:6]?
   
c. What is len(s)?
   
d. What is s.find(‘ram’)?
   
e. What is s.startswith(‘m’) ?
   
f. What is s.replace(‘fun’, ‘awesome’)?
   
g. What is s.lower()?
23. Write a function called `sumDigits` that takes in a string of numbers and returns the sum of all the single digits in the string. Example: `string = "2514"` returns 12 since 2+5+1+4 = 12.

24. Write a function called `total_time` that takes in a string in the format “Hours:Minutes:Seconds” where Hours, Minutes and Seconds can be any number of digits, and it returns the total seconds in that time.
25. Write a function called `indexSmallest` that takes in a list of integers, and returns the index of the smallest integer in the list.

26. Write a function called `countNums` that takes in a list of integers and returns a list containing the counts of each number in the list from 0 to 99.
   
   **Hint**: You should create a new list called `counts` of all 0s of length 100. Then if you encounter a 5 in the list, `counts[5] += 1`. 