**Java Assignment**

**Logical Coding Question:**

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16) Printing Christmas Tree Using Pyramid

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4 5 6 7 1 2 3

5 6 7 1 2 3 4

6 7 1 2 3 4 5

7 1 2 3 4 5 6

**Collection coding questions:**

1. Write a Java program to create a new array list, add some colors (string) and print out the collection.

2. Write a Java program to insert an element into the array list at the first position.

3. Write a Java program to retrieve an element (at a specified index) from a given array list.

4. Write a Java program to sort a given array list.

5. Write a Java program to reverse elements in a array list.

6. Write a Java program of swap two elements in an array list.

7. Write a Java program to print all the elements of a ArrayList using the position of the elements.

8. Write a Java program to append the specified element to the end of a linked list.

9. Write a Java program to insert the specified element at the specified position in the linked list.

10. Write a Java program to insert elements into the linked list at the first and last position.

11. Write a Java program to display the elements and their positions in a linked list.

12. Write a Java program to check if a particular element exists in a linked list.

13. Write a Java program to compare two linked lists.

14. Write a Java program to replace an element in a linked list.

15. Write a Java program to iterate through all elements in a hash list.

16. Write a Java program to empty an hash set.

17. Write a Java program to convert a hash set to an array.

18. Write a Java program to compare two sets and retain elements which are same on both sets.

19. Write a Java program to create a new tree set, add some colors (string) and print out the tree set.

20. Write a Java program to find the numbers less than 7 in a tree set.

21. Write a Java program to remove all the elements from a priority queue.

22. Write a Java program to count the number of key-value (size) mappings in a map

23. Write a Java program to convert a priority queue to an array containing all of the elements of the queue

24. Write a Java program to check whether a map contains key-value mappings (empty) or not

25. Write a Java program to get the value of a specified key in a map