ArrayList & For Each Lab

1. Create a new class named ArrayListForEachLab.
2. Your main method should call each method you write below.
3. Make sure you use comments and correct java conventions.

1. Write a new method named "createList" that returns an ArrayList. This method should create a new ArrayList and add a bunch of words or names to it. You can either add words manually or add them by reading in words from the console. Print the list using a for loop before returning to verify that the list was populated correctly. Make sure in method main() that you assign an ArrayList type variable to the return of the method createList().

2. Write a new method named "reverseList" that reverses the order of the elements in an ArrayList of strings. It returns void and has a parameter that accepts the list that was a result of calling "createList". Print the list in the method to verify that it indeed was reversed.

3. Write a new method named "capitalizePlurals" that accepts an ArrayList of strings (the return value from createList) as a parameter. The method should replace every word ending with an "s" with its uppercased version (drummers becomes DRUMMERS).

4. Write a new method named "removePlurals" that accepts an ArrayList of Strings as a parameter and removes every word in the list ending with an "s" or "S".

5. Create a new method named "inOrder" that returns void and doesn't have any parameters. Create your own array (**not an ArrayList**) of 20 integers. Verify that the list is in order (1, 2, 3, 4) by comparing each element using a for each loop. If it is not, print "Not in order", if it is, print "In order". Verifying by making two arrays, one in order and one not in order.

6. Create a random array of 10 integers in your main (between 1 and 10). Create a new method named "randomArray" that has an array of integers as it parameters (not an ArrayList). Using a for each loop, count the number of times 8 is in the array and print the sum after the for each loop. Now print your loop using a for each loop to verify your results.

7. Create a new method named "forJames" that reads in 5 Strings from the console storing each value into an array. Write a for each loop to see if the String "James" was inputted in the Console.

8. Create a new method named "forSchool" that reads in 5 doubles from the console storing each value into an array. Write a for each loop to see if all your grades are over 85.0.

9. Create a new method named “forSchool2” that reads in 5 integers from the console storing each value into an array. Write a for each loop to see if all your grades are over 85 AND they are even numbers.