**Written Answers for Question 1 and 7.**

**1.** Yes I had to change the Assignment-1 JUnit Test case and write new Test cases because of following reasons:

* In Assignment-1, add() method was returning void where as in Assignment-2, add() method returns boolean value. So previously I had not tested add() method with assertTrue for valid data and assertFalse for null string value which is fixed now in Assignment-2 code as part of refactoring.
* In Assignment-1, to check whether particular String is present or not, get() method was used and was returning the Node which is corrected in Assignment-2 by returning boolean Value. So assertTrue() and assertFalse() methods are used in Assignment-2 JUnit test cases.Same changes are done to size() method which returns integer now.
* Refactored the code to avoid having Node Class that acts as Struct. Created a interface for Node and have hidden the details in Assignment-2. This was not taken care in my Assignment-1.

After doing all the above changes, I had to write new JUnit Test case and I am confident that code in this Assignment-2 works after running the tests.

**7.** Yes, I could remove Null checks in certain places after I implemented the Null Object Pattern for Head and Leaf Nodes. But there are few checks which I could have handled it in better way. Implemented Null Object pattern using Factory pattern and it works.