**COMP-254** Data Structures and Algorithms

**Hands-On TEST-1**

**Be sure to read the following general instructions carefully:**

* This test **must be completed individually** by all the students **using Java**.
* Read the project naming and submission guidelines.

**Exercise 1**

In theexisting **CircularlyLinkedList** class,Write a non-static method named **getMax** for finding the maximum element in acircularly linked list. Write the testing code in the *main* method of the class CircularlyLinkedList. For this purpose, you must only use and update the CircularlyLinkedList.java file provided in **Lesson3Examples** posted in the **eCentennial** module “**Lesson Examples (from textbook)**”

(5 marks)

**Exercise 2**

In theexisting **DoublyLinkedList** class,writeand testa non-static method named **reverseList** to reversea doubly linked list. Write the testing code in the *main* method of the class DoublyLinkedList. For this purpose, you must only use and update the DoublyLinkedList.java file provided in **Lesson2Examples** posted in the **eCentennial** module “**Lesson Examples (from textbook)**”

(5 marks)

**Submission guidelines:**

You must name your **Eclipse project** according to the following rule:

**YourFullname\_COMP254\_Test1**.

Example: **JohnSmith\_COMP254\_Test1**

**Create a java package for each exercise (for example, ex1, ex2, …).**

**Submission rules:**

Compress the above Eclipse project according to the following rule:

**YourFullname\_COMP254\_Test1.zip**

Example: **JohnSmith\_COMP254\_Test1.zip**