

## COMP 2011

### Lab and Tutorial Six (Total Marks: 100)

**Deadline: 23:59, 30 Oct. 2014**

Download the simple linked list Java program from the Blackboard. Add the following functions in Class LinkListApp:

- (1) Create two linked lists. Each list is used to represent an integer, where each link contains one digit of the number. The digits are stored in order in a list such that the 1st digit is stored at the end of the list. For example, for integer 296, the corresponding list is  $2 \rightarrow 9 \rightarrow 6$ . To test your program, generate two lists to represent the integers 3987 and 9935, respectively. Print the contents of each list and print the return result by calling the function *isLess()* defined in (2).
- (2) Add a function ***public static boolean isLess(LinkList list1, LinkList list2)*** to return true if list1 contains a smaller number than list2 does; otherwise, returns false.

#### What to submit:

- (1) The report that records the output of your program.
- (2) The java source code of your program.