**Lab 6**

Create a NetBeans project and download MyList, MyAbstractList, MyLinkedList, and TestLinkedList classes to this project. Make sure that all methods we discussed in class are working properly.

Implement the following five methods in MyLinkedList.java program.

  /\*\* Returns true if this linked list contains the element e, otherwise returns false.\*/

  public boolean contains(E e) {

  }

  /\*\* Returns the element at specified index of this list, returns null if index is invalid. \*/

  public E get(int index) {

  }

  /\*\* Returns the index of the first matching element in this linked list, return ­-1 if no match. \*/

  public int indexOf(E e) {

  }

  /\*\* Returns the index of the last matching element in this list, returns ­-1 if no match. \*/

  public int lastIndexOf(E e) {

  }

  /\*\* Replaces the element at specified index in this linked list with the specified element. Returns the old element at specified index, otherwise returns null if index is invalid. \*/

  public E set(int index, E e) {

  }

Test these methods using TestLinkedList class. **DO NOT CHANGE THE CODE IN** TestLinkedList.java program. Submit **ONLY MyLinkedList.java** program and **outputs** via drop box in a folder named **Lab8**. You may work as a group but each individual student must submit their own copy of the MyLinkedList.java program. You need to use this completed code in your programming assignment 5.