**Lab 9**

**Implement the following for Java Nested classes**

(Do not use Java Collection Classes)

1. Do the following using the LinkedList code given in the Nested Class Slides
2. Modify the Node class to support Doubly LinkedList.(Name the reference pointer as next and prev)
3. Create a Doubly LinkedList.
4. Create 5 Nodes with Integer objects in them. Link them to the Doubly LinkedList.
5. Give a method remove(integer) that will remove the integer from the Doubly Linked List. If number not present then return -1.
6. Give a method add(a,b), this will add an integer b after the integer a has occurred in the Doubly Linked list. If a is not present in the list , then add b at the end of the list.
7. Give a method **int containsInteger( Integer)** which will take an Integer argument. It will search through the Doubly LinkedList and return the number of times the integer occurs in the Doubly Linked List.

(Note the distinction between Integer/int)