**Practice** Create a doubly linked list of *n* nodes and count the number of nodes

(Using the code in the lecture note first, then the following)

//countNodes() will count the nodes present in the list

**public** **int** countNodes() {

**int** counter = 0;

        //Node current will point to head

        Node<E> current = head;

**while**(current != **null**) {

            //Increment the counter by 1 for each node

            counter++;

            current = current.getNext();

        }

**return** counter;

    }

  //display() will print out the elements of the list

**public** **void** display() {

        //Node current will point to head

        Node<E> current = head;

**if**(head == **null**) {

            System.out.println("List is empty");

**return**;

        }

        System.out.println("Nodes of doubly linked list: ");

**while**(current != **null**) {

            //Prints each node by incrementing the pointer.

            System.out.print(current.getElement() + " ");

            current = current.getNext();

        }

    }

**public** **static** **void** main(String[] args) {

        DoublyLinkedList dList = **new** DoublyLinkedList();

        //Add nodes to the list

        dList.addFirst(1);

        dList.addLast(2);

        dList.addLast(3);

        dList.addLast(4);

        dList.addLast(5);

        //Displays the nodes present in the list

        dList.display();

        //Counts the nodes present in the given list

        System.out.println("\nCount of nodes present in the list: " + dList.countNodes());

    }

}