**WIA1002/WIB1002/WXES1117 Data Structures**

**Tutorial 6: LinkedList**

**Question 1**

1. Assume that a node class called Node<E> exist. Create two nodes called node1 and node2. Node1 contains alphabet ‘a’ and node2 contains alphabet ‘z’.
2. Draw the nodes from (a).
3. Write a statement/code for node1 accessing the node2. Modify 1(b) to show this.
4. Create a new node, firstNode. Add this new node at the first location of all existing nodes. Draw these nodes.
5. What are the conditions for this operation?
6. Write a list of operations/steps/pseudocode needed to add the firstNode to the first location.
7. Write codes to assign the firstNode to the first location.
8. Repeat (d) – (f), for the following operations :
   1. addLast() – value of element, c
   2. add(int index, E e) – value of element, d
   3. removeFirst()
   4. removeLast()
   5. remove(int index, E e) – remove at index 1