

# Lab Exercise # 1

A. **Mandatory:** Write C language based code to:

1. Create-A-Linked-List ();
2. Insert\_A\_New\_Node (Index, node\_value, A\_LL);
3. Find\_A\_Node(node\_value, A\_LL);
4. Delete\_A\_Node(node\_value, A\_LL);
5. Display\_A\_LL (A\_LL);
6. Modify\_A\_Node(Current\_Node\_Value, New\_Node-Value);

Assume that each node in the A\_LL contains start of Linked List

B. **Optional:** Write C language based code to (Marks 5)

- a. Delete-The-First-Node (A\_LL);
- b. Insert-A-New-Node-At-The-End (New-Node-Value, A\_LL);