



## **Week #3**

### **Lab Assignments**

- WAP to create a double linked list of n nodes and display the linked list by using suitable user defined functions for create and display operations.
- WAP to reverse the sequence elements in a double linked list.
- Write a menu driven program to perform the following operations in a double linked list by using suitable user defined functions for each case.
  - a) Traverse the list forward,
  - b) Traverse the list backward,
  - c) Check if the list is empty
  - d) Insert a node at the certain position (at beginning/end/any position)
  - e) Delete a node at the certain position (at beginning/end/any position)
  - f) Delete a node for the given key, g) Count the total number of nodes,
  - h) Search for an element in the linked listVerify & validate each function from main method
- WAP to create a single circular double linked list of n nodes and display the linked list by using suitable user defined functions for create and display operations.
- WAP to remove the duplicates in a sorted double linked list.