DATA STRUCTURE LABORATORY

1	Write a program to compute the sum of last k nodes in a linked list of n nodes. The k will be given by the user.
2	Simulate Queue using the Circular Singly linked list.
3	Design, Develop and Implement a menu driven Program in C for the following operations on Doubly linked list with integer data item. Create a singly linked list with following operations. a) Insert a node from the front b) Delete a node from the front c) Insert a node from the end d) Delete a node from the end e) Display the linked list After each of the operation from a) to d) the list should be displayed
4	Write a program to find the middle node of a given linked list. Example: 1→2→**3**→4→5 (node 3 should be printed) 1→2→3→**4**→5→6 (node 4 should be printed)
5	Create a linked list in which nodes represent the coefficients of a polynomial of degree n. Evaluate a polynomial at certain given value by the user.
6	Write aprogram to reverse the doubly linked List.