## Data Structure Laboratory Assignment SET- II

- 1. Write a program to create a singly connected linked list do the following operations on it: a. Insert a node at a specified position
  - b. Delete a node from a specified position.
  - c. Count the number of nodes in the linked list.
  - d. Reverse print the linked list.
  - e. Reverse the linked list.
- 2. Write a program to solve the Josephus problem using circular linked list.
- 3. Write a program to create a doubly linked list and do the operations as laid down in question number 1.
- 4. Write a menu driven program to implement basic operations of stack using linked list.
- 5. Write a program to convert an infix expression to its corresponding postfix expression.
- 6. Write a program to evaluate a postfix expression
- 7. Write a menu driven program which will do the following using array as well as linked list:
  - a. Construct a linear queue.
  - b. Insertion.
  - c. Deletion.
  - d. Check number of elements.
  - e. Check overflow and underflow conditions.
- 8. Do the same as in Question number 7 for a circular queue.
- 9. Write a program to implement a queue using two stacks.