

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.