**PSG COLLEGE OF TECHNOLOGY**

**DEPARTMENT OF COMPUTER APPLICATIONS**

**I SEM MCA**

**23MX17- DATA STRUCTURES LABORATORY**

**PROBLEM SHEET – Linked List**

1. Write a program to create a singly linked list and perform the following .
2. To insert a new node at the beginning
3. To insert a new node at a specified position
4. To insert a new node at the end
5. To delete a node at the beginning
6. To delete a node from a specified position
7. To delete a node at the end.
8. Display the list in reverse order
9. Count the number of nodes.
10. Merging of two linked list.
11. Sort a linked list
12. Swap nodes in a linked list without swapping data
13. Intersection point of two Linked Lists.
14. Find length of loop in linked list (checks whether a given Linked List contains loop and if loop is present then returns count of nodes in loop)