**Lab-3 Assignments**

**3.1** WAP to perform transpose of a given sparse matrix in 3-tuple format.

**Sample Input:**

Enter sparse matrix in 3-tuple format

4 5 4

0 2 33

1 1 17

2 3 46

3 4 51

**Sample Output:**

Transpose of sparse matrix:

R C Element

5 4 4

1 1 17

2 0 33

3 2 46

4 3 51

**3.2** Write a program to create a single linked list of n nodes and perform the following menu based operations on it using function:

i. Insert a node at specific position

ii. Insert after a given data

iii.Deletion of an element from specific position

iv.Delete of a given data

iv. Count nodes

v. Traverse the linked list