Assignment 5

Q.A. Answer the following questions in one or two lines :

- 1. Define Linked List.
- 2. What are applications of Linked List.
- 3. Write node structure of doubly linked list.
- 4. 'Linked List can only be traversed sequentially'. State True / False.
- 5. "The elements of linked list are stored sequentially". State True / False.
- 6. "Linked list is a non linear data structure according to access pattern". State True / False.
- 7. What are the advantages of double linked list over singly linked list.
- 8. Define generalized linked list.
- 9. Write the node structure for a singly circular linked list.
- 10. What is circular linked list.

Q. B. Answer the following questions :

- 1. Differentiate between array and linked list.
- 2. Write a node structure for generalized linked list. Draw GLL for ((a,(b,c)),d,e).
- 3. Write a function to create a list and return the pointer of first node of the list.
- 4. Write a function to perform addition of elements at even position in a doubly link list of integers.
- 5. Write a function to delete specific element from a singly linked list.
- 6. Write a function to calculate average of elements in a singly linked list of integers.
- 7. Write a function to insert a node in a doubly linked list at a given position.
- 8. Write a function to add a number at the end of the singly linked list.
- 9. Write a function to reverse a singly linked list.
- 10. Write a function to check whether two singly linked lists of integers are equal.