

ASSIGNMENT QUESTION 1:

- 1. Write a program to implement Linked List using C/C++ program (Singly Linked List as well as Circular List)**
 - (a). To create and traverse.
 - (b). Insertion at the front of list.
 - (c). Insertion in the middle of the list.
 - (d). Insertion at the end of the list.
 - (e). Insertion at location.
 - (f). Deletion at beginning of the list.
 - (g). Deletion at the middle of the list.
 - (h). Deletion at the end of the list.
 - (i). Deletion at specified location.
 - (j). To search a node by key
 - (k). To count number of nodes
- 2. Write a program to Implement a menu driven in C/C++ for the following operations on Singly Linked List(SLL) of Student Data with the fields:**

USN, Name, Branch, Sem, PhNo.

 - (a). Create a SLL of N Students Data by using front insertion.
 - (b). Display the status of SLL and count the number of nodes in it
 - (c). Perform Insertion and Deletion at End of SLL
 - (d). Perform Insertion and Deletion at Front of SLL
- 3. Write a program to display the linked list in reverse order. Note that the original linked list will not change.**
- 4. Write a program: Add 1 to a number represented as linked list.**
- 5. Write a program to swap two adjacent nodes in a linked list.**