
Lab-V
National Institute of Technology Silchar
Date: 25 September 2023

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Subject Code: CS-201
Semester: 3rd
Course: B.Tech

Subject: Data Structures
Department: CSE
Section: A

You have to write the time complexities and space complexities in the lab copies for all questions.

1. Write a program to insert a number in a linked list as given below-
 - (a) Insert at front
 - (b) Insert at last
 - (c) Insert after a given number
 - (d) Insert before a given number
2. Write a program to delete a number from a linked list as given below-
 - (a) Delete from front
 - (b) Delete from last
 - (c) Delete any given number.
3. Write a program to reverse a linked list using a) stack/recursion and b) iterative methods.
4. Write a program to intersect two linked lists.
5. Write a program to print the middle of a given linked list.
6. Write a program to add two numbers represented by a singly linked list.