



भारतीय सूचना प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Information Technology Guwahati

COMPUTER PROGRAMMING LAB (CS110)
ASSIGNMENTS-12

1. Write a complete menu-driven program in C to implement the following operations on a singly linked list, where the structure has only two members: one an integer and the other a pointer of the same structure type. Your program must support the following operations:
 - i. Insert at Beginning
 - ii. Insert at End
 - iii. Insert at a Given Position (index starts with 0)
 - iv. Delete from Beginning
 - v. Delete from End
 - vi. Delete a Node by Value
 - vii. Search for an Element
 - viii. Display the List
 - ix. Count Number of Nodes
2. Write a program to create two linked list which are already sorted in ascending order. First linked list contains numbers 1 to 10. The second linked list contains numbers from 11 to 20. Merge the two linked list to create a third sorted linked list.
3. Write a program that receives a filename from command line and prints first 20 characters of the file.
4. Write a program to copy contents of one file to another.
5. Write a program to merge the contents of two files into the third file.
6. Write program to count characters, words, and lines in a file.