Department of Computer Science and Engineering

NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR

Data Structures
LAB 2: Linked Lists

1. Write a program that creates a linked list from the following simple structure:

   struct SLL{   int data;
                   struct SLL *next;
           };

   The program provides a menu with **add**, **delete**, **display, search** and **exit** options. The user can add, delete or display the list as long as he does not hit exit. For each of the options in the menu, functions should be written and they should be in the following format.

   a. For add – struct SLL * addnode(struct SLL *s) – Simply adds a node at the end of the list.
   b. For display -- void display(struct SLL * s)
   c. For delete – struct LL * delete(struct SLL *s) – Simply deletes the most recently added node. Delete also prints the node that was deleted.

2. You also need to write the following two functions:

   Void ADD_POS(struct LL * s, int position)
   Void DEL_POS(struct LL *s, int position)

   These functions take position from the user (0 for start, -1 for end)and add/delete a node at that given position.

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