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**Section: SE 3A**

**Subject: Data Structure and Algorithms**

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**Assignment 6**

**DSA LAB TASK’S**

**LAB 6: Singly Linked List (Delete Nodes)**

Implement functions to delete the first node, last node, Nth node, and centre node of a singly linked list

**Explanation:**

The code creates a **Singly Linked List** where we can insert, delete, and display nodes. It supports inserting at the beginning, end, or a specific position, as well as deleting the first, last, or center node.

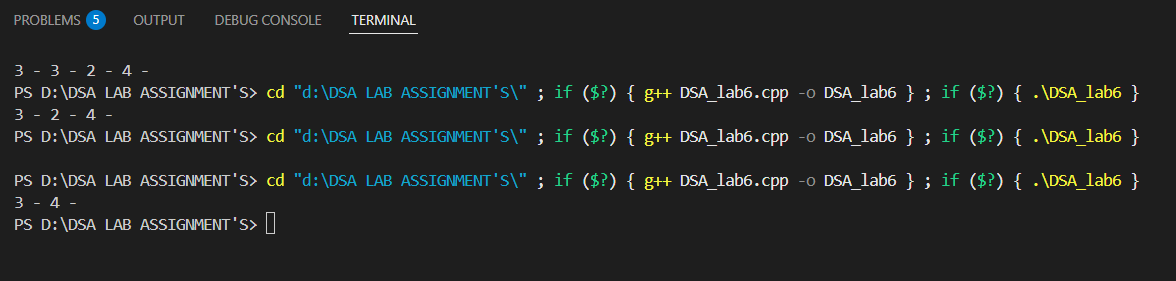
### Key Functions:

1. **insert\_first(int val)**: Adds a node with the value val at the beginning of the list.
2. **insert\_last(int val)**: Adds a node with the value val at the end of the list.
3. **specific\_location(int val, int pos)**: Adds a node with value val at the pos-th position in the list.
4. **DeleteAt(int num)**: Deletes the node at position num in the list.
5. **Delete\_first()**: Deletes the first node of the list.
6. **deleteCenterNode()**: Deletes the middle node of the list.
7. **Delete\_last()**: Deletes the last node of the list.
8. **display()**: Displays the entire list from start to end.

**Example:**

* insert\_first(2) and insert\_first(3) add 3 and 2 at the beginning.
* insert\_last(4) adds 4 at the end.
* specific\_location(3, 1) inserts 3 at position 1.
* display() shows the list: 3 - 3 - 2 - 4 -.

**OUTPUT**

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