**Lab Task 03**



**Superior University Gold Campus**

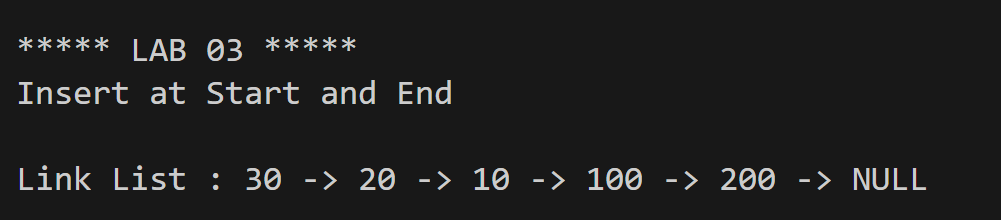
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| **Roll No** | **SU92-BSSEM-S24-029 (Section – 3A)** |
| **Subject** | **Data Structures and Algorithms (Lab)** |
| **Class** | **BS – Software Engineering** |

# **Lab 03: Singly Linked List (Insert at End, Insert at Start)**

This program implements a **singly linked list** with functions to insert nodes at the **start** and **end**. The **Node** class holds data and a pointer to the next node. The **insert\_at\_start** function adds a new node at the beginning by updating the **head** pointer, while **insert\_at\_last** traverses to the end of the list and appends a new node.

The **display** function prints the list by iterating through each node until it reaches **NULL**. The program demonstrates these operations by inserting values and displaying the list, showing how nodes are dynamically linked in a linear sequence.

**Outputs:**

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