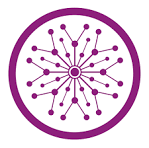
**Superior University**

**Lab no: 3**



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**Subject:** DSA (Lab)

**Submission Date:** 03-Febrary-2025

**Submission to**: Sir. Rasikh Ali

# **Task**

**Singly Linked List (insert at start/End):**

In this code, two classes are created named Node and LinkedList. In Node class declared roll in int, name in string, next pointer with class name Node. In Linked List class create head pointer with Node class-name and create default constructor and initialize head with NULL as not to show garbage value and create destructor to delete all nodes at the end of the class to free memory. Then create data function to take the values from user, and create insert-At-Start function to place new at the start and make that to head, like

temp->next = head;

    head = temp;

show that pointer of new-Node is equal to head and head is equal to new-Node to move the head to next and insert at head and update the head. Then create insert-at-end function, in this

while(temp-> next!=NULL){

        temp = temp->next;

    }

While loop is true until head -> not equal to NULL and move head to its next. After that place new-Node at the end. Then create a display function this checks each node and display all.

**Output:**

