

**Lab 07 – 28-10-2024**

**Note 1:** This is graded lab. Code in C++. Evaluation will be lenient but no compromise on cheating or any other violation. Therefore, please do your own work.

**Task 1:** Write member function for Linked List class to print member functions (print duplicate elements once only)

**Elements:** 15 5 13 7 6 13 7 5 4 3 4

**Output:** 15 5 13 7 6 4 3

**Task 1:** Write member function to create union of the two lists in the first list. Attach non-duplicate values, with first list and remove duplicated nodes from second list to make it empty.

**Pre Operation:** **Elements List 1:** 5 1 3 7 6 2

**Elements List 2:** 4 3 1 9 7 8

**Post Operation:** **Elements List 1:** 5 1 3 7 6 2 4 9 8

**Elements List 2:** x

**Task 3.** Write a member function for doubly linked list to remove duplicate elements

**Task 4.** Write a member function split even, to split nodes with even values into two nodes with half value in each such that the list has odd elements only.

**Pre Operation:** **Elements:** 5 6 7 8 12 9

**Post Operation:** **Elements:** 5 3 3 7 1 1 1 1 1 1 1 1 3 3 3 3 9