**DSP LAB**

26-11-2020

**Assignment Questions.**

1. Convert an unsorted Array into Sorted Array. Find the Starting and Ending position of a given Value in that sorted Array. {You should Pass the array to the functions }

[**Input:**

Array: 25,10,6,30,5,10,95,48,10,13

Value: 10

**Output:**

Starting Occurrence : 3

Ending Occurrence : 5 ]

1. Write a C program to ADD, DELETE, DISPLAY and SEARCH elements in a Singly Linked List .

Week Assignment:

1. Add the new Function to Reverse the elements in a linked list that you implemented in Question 2.
2. Implement Josephus problem using Linked List

**Points to Remember:**

* In the lab session implement the first two questions and submit the code as zip file in Google Classroom.
* The Next Three Questions are to be submitted on or before next Wednesday 11:59 PM
* Make a proper documentation [preferably **Word Document**] of the code execution part by adding Screenshots of the execution part, the Debugging part and verbal explanation of the flow of the program
* Make a Tar or Zip file of the documentation and source code files and upload it in Google Classroom.
* The file name should be Roll number followed by lab date. i.e., **20MCMB01\_26112020.zip**
* Viva/Demo will be asked for assignments in random manner. So all code should be backed up - preferably in GitHub or similar

**References:**

<https://www.geeksforgeeks.org/josephus-problem-set-1-a-on-solution/>