

**Data Structure Lab, B.Tech 2nd Semester**

**Instructions**

1. After completion, you can share the files through the google form, the link will be provided. 2. Deadline to submit is 12th May 2023.

**Assignment -5**

1. Write a C program to implement basic operations of Queue such as enqueue, dequeue, and display using a linked list in C.
2. Write a C program to reverse each word of a given string using stack data structure without changing the order of words within the String.

**Sample Input & Sample Output**

|  |  |
| --- | --- |
| **Input** | **Output** |
| I am Student | I ma tnedutS |
| I love C Programming | I evol C gnimmargorP |

1. Write a C program to check if two queues are equal.

**Sample Input & Sample Output**

|  |  |  |
| --- | --- | --- |
| **Input** |  | **Output** |
| Queue 1: Queue 2: | 3, 4, 11, 8  3, 4, 11, 8 | Equal |
| Queue 1: Queue 2: | 3, 41, 100, 8  3, 4, 11, 8 | Not Equal |
| Queue 1: Queue 2: | 3, 4, 11, 8, 45, 100  3, 4, 11, 8 | Not Equal |

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