Assignment 3

 **Shri G.S Institute of Technology & Science**

**Data Structure**

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| Sr. No. | Program | P. No. | Remarks |
| 1 | Write a program in C to find the GCD of two numbers using recursion. | 1 |  |
| 2 | Write a program in C to get the largest element of an array using recursion. | 1 |  |
| 3 | Write the Algorithm for enqueue and dequeue operation. | 1-2 |  |
| 4 | Write a C program to implement a queue using an array. Programs should contain functions for inserting elements into the queue, deletion elements into the queue, displaying queue elements, and checking whether the queue is empty or not. | 2-4 |  |
| 5 | Write a C program to count the number and sum of elements in a queue. | 4-6 |  |