**LAB CYCLE-1**

**20MCA135 DATA STRUCTURES LAB**

**S1-2023 BATCH**

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| **SI.NO** | **PROGRAM** |
| 1 | Program to find largest and smallest element in an array |
| 2 | Program to Merge two sorted arrays and store in a third array |
| 3 | Program to implement stack using array |
| 4 | Program to implement queue using array |
| 5 | Program to implement Circular Queue - Add, Delete, Search |
| 6 | Program to implement singly linked list |
| 7 | Program to implement stack using Singly Linked Stack - Push, Pop, Linear Search |
| 8 | Program for Doubly linked list - Insertion, Deletion, Search |
| 9 | Program for Binary Search Tree operations- Insertion, Deletion, Search |
| 10 | Program to implement Set Data Structure and set operations (Union, Intersection and Difference) using Bit String. |
| 11 | Program to implement Disjoint Sets and the associated operations (create, union, find) |