**Data Structure and Algorithm Lab Question**

* **Write program to implement an array as an Abstract Data Type (ADT) with operations like insert, delete, and display. Test it with an array of integers of size 10.**
* **Write a program to convert an infix expression to postfix using a stack. Test it with at least 2 different expressions.**
* **Implement a stack ADT using an array with push, pop, and peek operations.**
* **Implement a queue ADT with enqueue, dequeue, and display operations. Test it by adding 6 elements and removing 3**
* **Modify your queue implementation to create a circular queue. Test it by filling a queue of size 5, dequeuing 2 elements, and enqueuing 2 more.**
* **Implement the Tower of Hanoi problem recursively for 3 disks. Display the sequence of moves to solve it.**
* **Create a program to implement a singly linked list with.**
* **Implement a stack using a singly linked list.**
* **Write a program to create a binary tree and perform an in-order traversal to display the nodes.**
* **Implement Bubble sort , Quick sort , Insertion sort , Selection sort and Merger sort .**
* **Implement Breadth First search Or Depth First Search**

**Students are requested to submit the report before the end of the Preboard Examination**