Advanced Data Structures

List of Experiments.

Sr. No.	Objectives.
1.	Write a program to implement linear search and binary search and compare their time complexity graphs for different values of ‘n’ (no. of elements)
2.	**a.** Write a program to implement Simple Queue and then perform the operations of Enqueue, Dequeue, Overflow and Under flow over it. **b.** Write a program to implement Circular Queue and then perform the operations of Enqueue, Dequeue, Overflow and Under flow over it.
3.	**a.** WAP to implement a Singly Linked list and then perform insertion at the first position, last position and a specific position. Also show deletion from the first position, last position and a specific element. **b.** WAP to implement a Singly Linked list and then perform insertion at the first position, last position and a specific position. Also show deletion from the first position, last position and a specific element.
4.	**a.** WAP to implement Stacks and then perform the operations of Push, Pop, Peek. Also, print all the stack elements. **b.** WAP to print the stack elements as they were added into the stack. HINT: Use an auxiliary stack.
5.	**a.** WAP to find a subarray in the array with the largest sum (Max_Subarray). **b.** WAP to find and eliminate duplicate elements from an array.