Programme	:	B.Tech	Semester	:	Fall 20-21
Course	:	Data structures and Algorithms (Embedded Lab)	Code	:	CSE2003
Faculty	:	Dr.B. Saleena / Dr.V.M.Nisha	Slot	:	L43+L44

Exercise No: 8

Divide and Conquer Techniques

Q1. The share market price of a Product X varies over time interval of one hour inclusive of opening and closing time. The price in rupees recorded from 9 AM to 4 PM is as follows 40, 42, 44, 43, 46, 41, 47 and 45. **Sort** the prices in non-decreasing order and **search** for a given price in the list of recorded share prices. Implement all the below given algorithms.

- **Sorting - (Mergesort and Quicksort)**
- **Searching – Binary Search**