

Lab-9

1. Develop a calculator (to perform basic arithmetic operations) for complex numbers. Each complex number is represented using a structure and there is a function for each mathematical operation. You are not allowed to return a structure from the function. Perform the following operations
 - a. Addition
 - b. Subtraction
 - c. Multiplication
 - d. Division
 - e. Converting the complex number into polar form
 - f. Calculating the magnitude of the complex number
2. Develop a database of a set of students. The database contains name, Gender, CGPA, Year of joining and roll number. Sort the database according to the year of joining, and within each year sort them according to their roll number.