**Data structures Lab**

**Home Tasks for Lab # 1**

**Deadline: 1st September 2019, Sunday , 5:00 pm**

**Note**: Every question should be implemented in the format discussed in class with separate header files and implementation files.

**Q1:** Implement a quadratic equation solver with real coefficient values (ax^2+bx+c=0) with nature of roots calculation and imaginary root supports.

**Q2:** Create a class "Student" with private data members Name, Semester and GPA and two public member functions Input\_Data() and Extract\_Highest().

**Input\_Data():** This function creates object of the class and takes name, semester and GPA as input from user for 3 students and write the objects to a text file as whole.

**Extract\_Highest():** This function reads the stored data from the text file and displays the name of the student with the highest GPA.