CSCI 2215 Chapter 7 Homework

1. Write a program that uses the following arrays:
   1. empID: an array of seven integers to hold employee ID’s. The array should be initialized with the following numbers: { 5658845, 4520125, 7895122, 8777541, 8451277, 1302850, 7580489 }
   2. hours: an array of seven integers to hold the number of hours worked by each employee
   3. payRate: an array of seven doubles to hold each employee’s hourly pay rate
   4. wages: an array of seven doubles to hold each employee’s gross wages

The program should relate the data in each array through the subscripts. For example, the number in element 0 of the hours array should be the number of hours worked by the employee whose ID number is stored in element 0 of the empID array. That same employee’s pay rate should be stored in element 0 of the payRate array.

The program should display each employee number and ask the user to enter that employee’s hours and pay rate. It should then calculate the gross wages for that employee and store them in the wages array. After the data has been entered for all the employees, the program should display each employee’s ID number and gross wages.

1. Write a program that lets the user enter 10 values into an array. The program should then display the largest and smallest values stored in the array.
2. A teacher has five students who have taken 4 tests each. The teacher uses the following grading scale to determine the students’ letter grade based on the average of his/her 4 tests.

Test Score Letter Grade

90 – 100 A

80 – 89 B

70 – 79 C

60 – 69 D

0 – 59 F

Write a program that uses an array of string objects to hold the five student names, an array of five characters to hold the five students’ letter grades, and five arrays of four doubles to hold each student’s set of test scores.

The program should allow the user to enter each student’s name and his or her four test scores. It should then calculate and display each student’s average test score and a letter grade based on the average.

Input Validation: Do not accept test scores less than 0 or greater than 100.