**Homework-1**

**Out Date:** 09/04/2018 (Tuesday)

**Due Date:** 09/09/2018 (Sunday) 11:59PM

**Problem Statement:** Write a program that uses the following arrays **[10 points]**:

* **empId:** an array of seven long integers to hold employee identification numbers. The array should be initialized with the following numbers:

5658845 4520125 7895122 8777541 8451277 1302850 7580489

* **hours:** an array of seven integers to hold the number of hours worked by each employee
* **payRate:** an array of seven doubles to hold each employee’s hourly pay rate
* **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 identification 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 **[10 points]**. It should then calculate the gross wages for that employee (hours times pay rate) and store them in the wages array **[20 points]**. After the data has been entered for all the employees, the program should display each employee’s identification number and gross wages **[20 points]**.

**Input Validation:** Do not accept negative values for hours or numbers less than 15.00 for pay rate **[10 points]**.

**Algorithm:** Develop a flowchart before actually coding the program **[10 points]**.

**Scoring Distribution [100 points]**

* 10 points for developing an algorithm
* 70 points for implementing the above mentioned requirements.
* 10 points for appropriate comments
* 10 points for programing style

**Blackboard Submission**

1. Submit the CPP file (e.g., HW1\_ Team#.cpp)
2. Submit the algorithm (e.g., HW1\_ Team#.doc)
3. Upload the files to Blackboard