CS1428 Lab 12

# Name: Section:

(65pts) Write a C++ program (**lab12.cpp**) that uses an array of six(6) structures with the following fields:

* **empId**: an integer to hold employee identification numbers.
* **empName**: a string to hold employee Name.
* **hours**: a double to hold the number of hours worked by each employee.
* **payRate**: a double to hold each employee’s hourly pay rate.
* **wages**: a double to hold each employee’s gross wages.

The program should open a file (**E\_PayRoll.txt**) containing a list of employee identification numbers, names and their respective pay rate.

The program should read the identification numbers and names from the file **E\_PayRoll.txt** into the **empId** and **empName** fields and the pay rate into the **payRate** field.

It should then display each employee name and identification number and ask the user to enter that employee’s hours. The employee’s hours entered by the user should be stored in the **hours** field.

The gross wage should then be calculated for each employee (gross wage = **hours \* pay Rate**) and should be stored in the **wages** field.

After the data has been entered for all employees, the program should write all of this information in table form with appropriate table headings, row headings and/or column headings to an output file **lab12\_EmpPayRoll.txt**.

**Input Validation:** Do not accept negative values for hours.

Use functions for all major processing:

* A function that takes or accepts two (2) arguments: (1 Array and an Input filestream variable). The function opens the file and reads the employee identification numbers, names and pay rate into their respective fields.
* A function that accepts 1 argument: (1 Array). It should display each employee name and identification number and ask the user to enter that employee’s hours.
* A function that accepts 1 argument: (1 Array.) It should compute the gross wage for each employee.

**Output Sample:**

**Employee ID Hours Worked Pay Rate Wages Earned**

**Upload** your source code **lab12.cpp** and attach a print out to this worksheet.