CSCI 2916 Lab 11 – Week 11

Lab: Pay Class with arrays as fields

Write a Pay class that uses the following arrays as fields:
employeeId – An array of six integers to hold employee identification numbers. The array should be initialized with the following numbers:

102938	293847	384756
475610	192837	381029

hours – An array of six integers to hold the number of hours worked by each employee
payRate – An array of six doubles to hold each employee's hourly pay rate
wages – An array of six doubles to hold each employee's gross wages

The class 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 is stored in element 0 of the employeeId array. That same employee's pay rate should be stored in element 0 of the payrate array.
In addition to the appropriate accessor and mutator methods, the class should have a method that accepts an employee's identification number as an argument and returns the gross pay for that employee.
Demonstrate the class in a program that displays each employee number and asks the user to enter that employee's hours and payrate. It should then display each employee's identification number and gross wages.
Input Validation: Do not accept negative value for hours or numbers less than 10.00 for payrate

The program should ask for all of 6 employees' hours and payrates. The sample run only shows 3.

Sample Run (output of program in bold, user input in italic):

Enter the hours worked by employee number 102938: -*20*
ERROR: Enter 0 or greater for hours: *20*
Enter the hourly pay rate for employee number 102938: *25.00*
Enter the hours worked by employee number 475610: *30*
Enter the hourly pay rate for employee number 475610: -*20*
ERROR: Enter 10.00 or greater for pay rate: *20*
Enter the hours worked by employee number 293847: *25*
Enter the hourly pay rate for employee number 293847: *30*

PAYROLL DATA
==========
Employee ID: 102938
Gross pay: $500.00

Employee ID: 475610
Gross pay: $600.00

Employee ID: 293847
Gross pay: $750.00

Guidelines for a good program:
The program works, following the dialog and rules above.
The code is clear and understandable:
Properly indented
Representative variable names
Blank lines separate logical sections of code
Appropriate comments included (java doc comments for each method, **UML for the class**)
Preamble documentation is included

Thoroughly test program
Review program assignment rubric