University of Windsor

School of Computer Science - Fall 2019 COMP-3220-1: Object-Oriented Software Analysis and Design Assignment-4 Due: November 11, 2019 @11:59pm

Objective:

The objective of this assignment is to write unit test cases using JUnit.

Assignment Specification:

A company wants you to write an application that performs its payroll calculations. Requirement specifications are given below:

A company pays its employees on a weekly basis. The employees are of five types: Salaried employees are paid a fixed weekly salary regardless of the number of hours worked, hourly employees are paid by the hour and receive overtime pay (i.e., 1.5 times their hourly salary rate) for all hours worked in excess of 40 hours, commission employees are paid a percentage of their sales and base-salaried commission employees receive a base salary plus a percentage of their sales, piece worker employees are paid based on the number of pieces of merchandise produced. For the current pay period, the company has decided to reward salaried-commission employees by adding 10% to their base salaries and pieceWorker employees by adding 1% to their wage per piece.

A sample solution of this problem is uploaded in Blackboard. So you do not need to write/use your own solution. Use the uploaded solution and perform the following tasks: (54 marks)

- Create CompanyEmployeePayrollTest.java in the above uploaded solution.
- Write test cases for each method (including getter and setter methods) in CompanyEmployeePayrollTest.java.
- If you run CompanyEmployeePayrollTest.java, all the test cases should pass.

There are some sample test cases uploaded in Blackboard under Lecture-6. See those sample test cases as reference.

Submission Instructions:

Unzip and use Eclipse to open the uploaded java application. After adding CompanyEmployeePayrollTest.java, rename your project with A4_yourSID, compressed (zipped) your project folder, and submit to the Blackboard. For example, if your SID is "123456789", then the submission file is "A4_123456789". You can submit multiple times but the mark will be posted based on your latest attempt.