605.201
Introduction to Programming Using Java

Assignment 7

This assignment will use the Employee class that you developed for assignment 6. Design two sub-classes of Employee…SalariedEmployee and HourlyEmployee. A salaried employee has an annual salary attribute. An hourly employee has an hourly pay rate attribute, an hours worked attribute, and an earnings attribute. An hourly employee that works more than 40 hours gets paid at 1.5 times their hourly pay rate. You will decide how to implement constructors, getters, setters, and any other methods that might be necessary.

1. (20 points) Draw a UML diagram for the classes.
2. (80 points) Implement the classes, and write a test program that creates a salaried employee and two hourly employees. One of the hourly employees should have hours worked set to less than 40 and one should have hours worked set to more than 40. The test program should display all attributes for the three employees. To keep things simple, the employee classes don't need to do any editing.

Submit the source code and screen shots of each program's output in a zip file named as follows: Assignment7 followed by an underscore (_) followed by your first name initial, followed by your last name, followed by your course section number. For example, if your name is Jane Smith and you are in section 81 your zip file would be *Assignment7_jsmith81.zip*.