

HW T1

You can work in groups of two for this assignment. Only one person should submit the assignment.

Problem

You will develop the 21 test cases according to the test specification for *getPay()* for the *Employee* class from the *Testing Example* handout and then write these as JUnit tests.

Steps

1. Download the spreadsheet, *hw_t1_lastName1_lastName2.xlsx* and rename so that "lastName1" and "lastName2" are your last names.
2. Open the spreadsheet and provide values for the 7 elements for the *hours* array and the expected pay for each test case. You will use pay rate of \$10/hour. The values must be valid in the sense that they adhere to the test specification. For example, for case 3, this would not be valid, *hours*=[10,10,10,0,10,0,2] for two reasons: WDW=40, but the spec says <40, and WEW=1, when the spec says 0.
3. (50 points) Email me the completed table using this

Subject: "CS 4321-HW T1, lastName1, lastName2"

I will grade this by checking that your test values conform to the specification and the calculations are correct. I will let you know what is wrong, you will fix and repeat until all correct.

4. When the step above is correct and complete, I will email you a zip file with the *Employee.java* file.
5. Open Eclipse and
 - a. Create a project named, *hw01*
 - b. Create a package named *prob1*
 - c. Drag the *Employee* class into the *prob1* folder
 - d. Drag the (corrected) spreadsheet into the *prob1* folder
6. Create a JUnit test class named, *EmployeeTest*. (File, New, JUnit Test Case)
7. (50 points) Write the 21 tests above as JUnit 5 tests. The *getPay* method supplied to you is correct. So, if some of your test fail, then this means that your test code is wrong. Fix the code so that all tests pass.

Deliverables

1. Verify that your *prob1* folder contains:
 - a. *EmployeeTest.java*
 - b. *Employee.java*
 - c. *Hw_t1_lastName1_lastName2.xlsx*
2. Zip the *prob1* folder into a file named: *hw_t1_lastName1_lastName2.zip*.
3. Submit on Blazeview in the dropbox named, *HW T1*. Only one person should submit.