

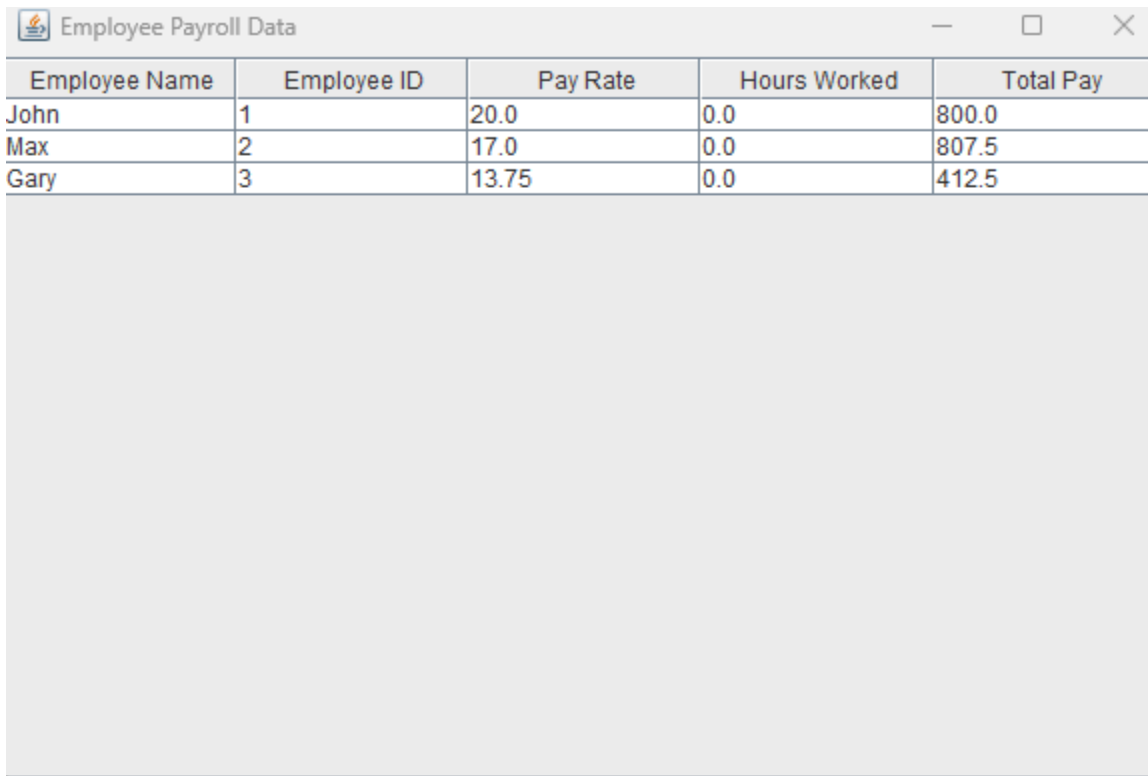
Lab 2 Report for Zihao Li

1. Reflection

Through this lab, I've gained practical experience in writing Java classes and testing them, which has deepened my understanding of object-oriented programming. The process of creating classes like `Employee` and `Paycheck`, along with writing comprehensive tests, has made me more comfortable with Java syntax and OOP principles. I've learned the importance of constructing clear and concise code and the necessity of thorough testing to catch errors early and ensure code reliability.

2. Extensions

I have fixed my code to handle the exception tests in the driver code. In addition, I went ahead and made a very simple visualizer for the data.



The screenshot shows a Java Swing window titled "Employee Payroll Data". Inside the window is a table with five columns: "Employee Name", "Employee ID", "Pay Rate", "Hours Worked", and "Total Pay". The table contains three rows of data for employees John, Max, and Gary. Below the table is a large, empty rectangular area, likely intended for a visualization.

| Employee Name | Employee ID | Pay Rate | Hours Worked | Total Pay |
|---------------|-------------|----------|--------------|-----------|
| John | 1 | 20.0 | 0.0 | 800.0 |
| Max | 2 | 17.0 | 0.0 | 807.5 |
| Gary | 3 | 13.75 | 0.0 | 412.5 |

It runs on pretty simple ideas, more testing will be needed to run larger datasets.

3. Grading

I think I have completed the required steps. I'm confident to receive an full credit.

Academic integrity statement:

I understand that my learning is dependent on individual effort and struggle, and I acknowledge that this assignment is a 100% original work and that I received no other assistance other than what is listed here.

Acknowledgements and assistance received:

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| Name: Zihao Li | Date: 01/26/2024 |
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