**CHRIST (Deemed to be University)**

**Department of Computer Science**

**MSc – Artificial Intelligence and Machine Learning**

**Name:** Syed Mohammed Luqmaan (2448552)

**Course:** Java Lab

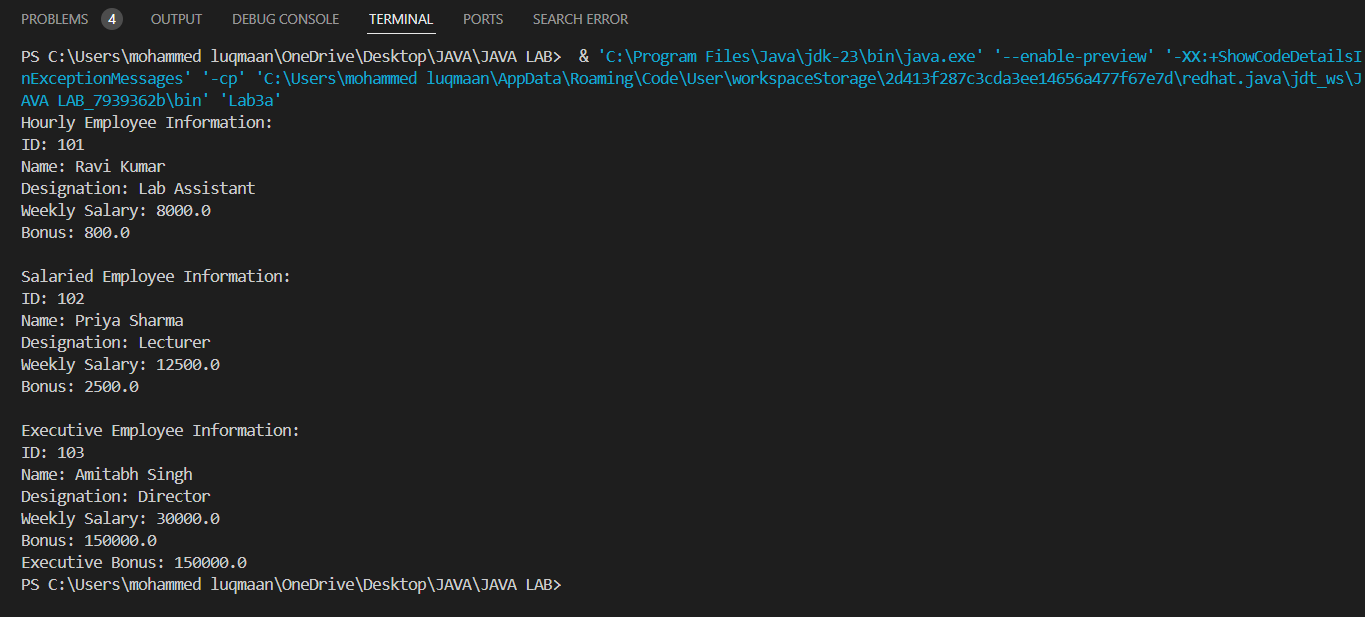
**Lab Experiment:** 3

**LAB 3:**

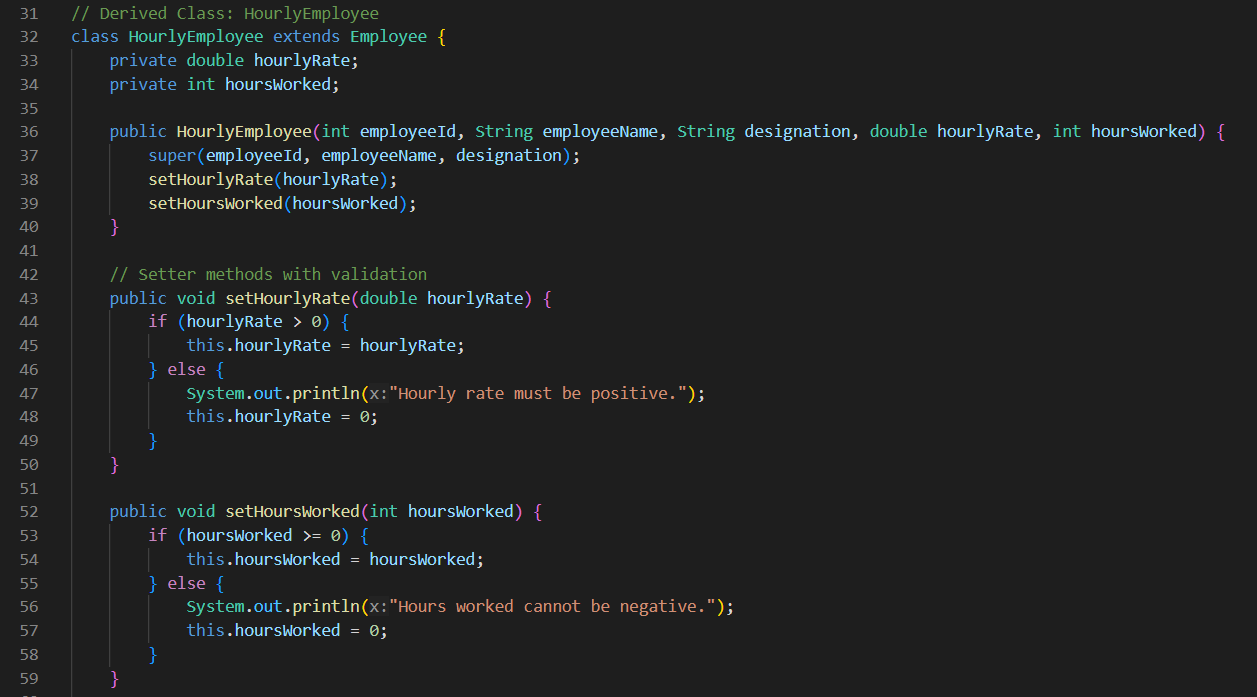
1. **Description :**

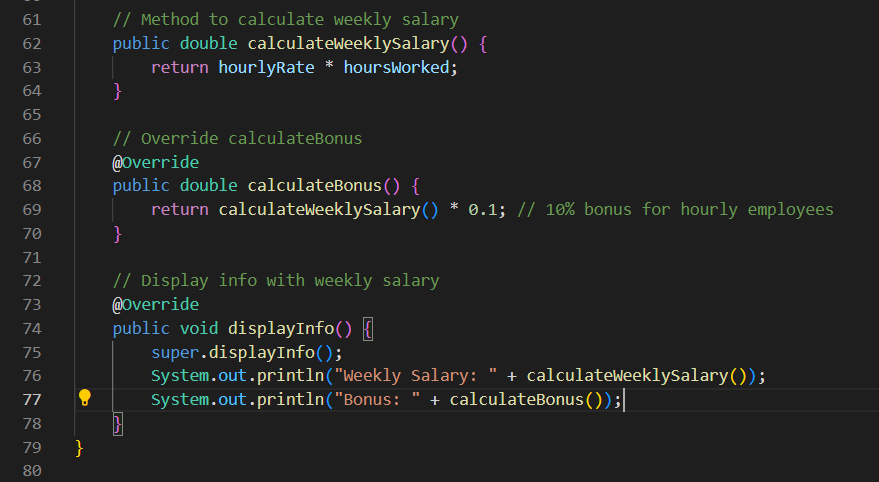
**The Employee Payroll System is a Java application designed for managing employee information and compensation at CHRIST (Deemed to be University). It utilizes object-oriented programming principles, particularly inheritance and method overriding, to create a flexible framework for various employee roles. The base class, Employee, contains common attributes such as employeeId, employeeName, and designation, along with methods for calculating bonuses and annual earnings. The program includes derived classes like HourlyEmployee, which calculates weekly salaries based on hourly rates and hours worked, and SalariedEmployee, which derives monthly salaries and calculates bonuses based on a fixed percentage. Additionally, the ExecutiveEmployee class extends SalariedEmployee, introducing a bonus percentage feature. Each class incorporates data validation to ensure correct attribute values and has a displayInfo method to showcase employee details, including calculated salaries and bonuses. The main class, Lab3a, instantiates various employee objects and demonstrates the system's functionality, providing a robust solution for payroll management that can be easily expanded for future needs.**

**Screenshots:**

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