Lab 1: OOP Review

Create a Payroll application according to the following requirements:

Functional Requirements:

- For all employees, the application needs to keep track of
  - Employee Name
  - Address
  - Phone No.
- There are three types of employees
  - Part-time Employee;
    for which the application needs to keep track of
    - hourly rate
    - number of hours

    and the payment is calculated as according the equation:
    - hourly rate * number of hours
  - Full-time Employee;
    for which the application needs to keep track of:
    - Monthly salary
    - tax rate

    and the payment is calculated according to the equation
    - salary – (salary * tax rate)
  - Manager; which is also a full-time employee but in addition to the salary and the tax rate, the application would also need to keep track of
    - Monthly bonus

    and the payment is calculated according to the equation
    - (salary – (salary * tax rate)) + bonus

- Your app should read the information about at least 3 employees (one of each type)
  - Hint: you can use the Scanner class to read
- Create and populate corresponding objects
- Print out the name of each employee and their calculated payments

Non-Functional Requirements

- Use Inheritance and polymorphism to minimize code duplication
- The main function must be written in a class named Payroll on its own

Submission Instructions

- Compress the entire NetBeans project and submit it to the assignment on OWL
- You are expected to work on this assignment as an individual. Any violation to academic integrity will result in a zero mark.
  - I understand that some students find a sort of unhealthy fulfillment in cheating the system, but you'd find much better fulfillment if instead you put your energy into building real competence that will help you get a good job with high payment.

How is the lab conducted?

- The lab assignment will be posted on Friday and will be due on the next Friday (24hrs after the last lab)
- If you have any question
    - Imagine you'd win 1000$ if you figured it out on your own and try it first (you'd actually win much more since it's a skill that you'd need throughout your career)
    - If you couldn't figure it out and you're ready to lose the 1000$
        - Join the Zoom meeting of your lab (only the one you registered for)
        - Raise your hand and wait for the TA to take your question
- It's better for you to work on it and submit it during your allocated lab time (or 24hrs after), because you have other things to do, and last-minute questions are not likely to be addressed