Lab Assignment 5B

Create an **abstract** class Employee. Your Employee class should include the following attributes:

First name (string)
Last name (string)
Employee id (string)
Employee home street address (string)
Employee home city (string)
Employee home state (string)
Write a constructor to initialize the above Employee attributes. Create an abstract method called earnings.

Create another class HourlyEmployee that inherits from the abstract Employee class. HourEmployee must use the inherited parent class variables and add in attributes HourlyRate and HoursWorked. Your HourEmployee class should contain a constructor that calls the constructor from the Employee class to initialize the common instance variables but also initializes the HourlyRate and HoursWorked. Implement the Employee abstract earnings method in HourlyEmployee to calculate the earnings for a week. Note that earnings is hourly rate * hours worked.

Create a test class that prompts the user for the information for two hourly employees, creates the 2 two hourly employees objects, calls the earnings method then displays the attributes and earnings for each of the two hourly.

Add a comment heading on all .java files:

- Name
- Date
- Assignment
- Sources used to complete the assignment: (this may be text and page numbers, tutor names and dates, a specific link, etc)

Program grading:

1. Submitted pseudocode showing logic steps to perform required task(s) (1 pt)
2. Submitted java File(s) (1 pt) – include indentations and spacing, use of good naming conventions for variable and class names.
3. Submitted .class File (1 pt)
4. Submitted Screenshot of properly coded and presented output (and input if required) (1 pt)
5. Properly working code applying techniques learned in weekly lesson (1pt) ***Note:***

Please be aware that copying and pasting code from any other source other than code you have explicitly written on your own is considered plagiarism. If you receive help, that is fine however you need to write your own code, name your own variables and comment your own code. Students turning in the exact same work as another student will all be given zeros. Plagiarism is not tolerated and students found to be plagiarizing will be given a zero and reported to the university; with the possibility of termination of the class and degree program.