**IT1323L**

**Lab Assignment 3B**

**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.**

Create a class Client. Your Client class should include the following attributes:

Company Name (string)

Company id (string)

Billing address (string)

Billing city (string)

Billing state (string)

Write a constructor to initialize the above Employee attributes.

Create another class HourlyClient that inherits from the Client class. HourClient must use the inherited parent class variables and add in hourlyRate and hoursBilled. Your Hourly Client class should contain a constructor that calls the constructor from the Client class to initialize the common instance variables but also initializes the hourlyRate and hoursBilled. Add a billing method to HourlyClient to calculate the amount due from a service provided. Note that billing amount is hourlyRate \* hoursBilled

Create a test class that prompts the user for the information for five hourly clients, creates an arraylist of 5 hourly client objects, display the attributes and billing for each of the five hourly clients. Display the company name and billing amount for each company and the total billing amount for all five companies.

Remember to submit your pseudocode algorithm (use keywords from <https://ccse.kennesaw.edu/fye/pseudocode/pseudocodereference.php>) , all your .java files, .class files and screenshots of your code and output.

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 (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) (1pt)
5. Properly working code applying techniques learned in weekly lesson (1pt)