

Laboratory Assignment 1- Create the Java programs for the following specifications.

1. An electric company is charging its consumers based on the following table:

No of Units consumed	Charges/Unit
For the first 200 units	2.5
For the next 300 units	3.5
Over 500 units	5.00

If the consumer pays within 15 days, a discount of 10% is given. If the consumer pays after 15 days, a surcharge of 5% will be added to the total bill amount.

1. Your program should accept number of units
 2. The program will compute the total bill amount based on the table above
 3. After the computation, the program should ask whether the consumer pay within the 15 days. You can use 1 for yes and 0 for no.
 4. Based on the answer on number 3, the total billing amount will be adjusted.
 5. The total bill amount will be displayed.
 6. If the user, inputs a value that is 0 or below 0, a message error would show, and the program will not process.
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2. A University is trying to count the number of its students and percentage of each department based on the total student population. The information will be used during the university president speech. The following are the program specifications:
 1. There are four categories of students in the university. These are the following: B.Tech, M.Tech, M.S and PhD. Your program should be able to accept numbers entered for each of these categories.
 2. The program should be able to compute the percentage of each category based on the total student population.
 3. The program should be able to display which category has the biggest number of students and which category has the smallest number of students.

Note:

1. The following will be part of the grading criteria:
 - a) Usage of comments and mnemonic variables
 - b) Usage of methods with parameters and without parameters.

All programs should have proper prompts and description of output. All numeric output that has decimal points should be rounded to two decimal points. All programs should have proper comments and use mnemonic variable names.

Submission: Follow the steps on how to submit files. Named your files appropriately.