CIS-CSC 170 Assignment #5 Due: March 19

Write a program to bill customers of an automobile rental company.

Each record of the input file gives details of a car rental by a customer.

The input file i.e. (rental.txt on blackboard)

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Columns 1 – 20 Customer name

21 – 24 Car make

25 – 29 Mileage to one decimal place 9999v9

30 – 31 Integer number of days

Output file:

Pete’s Car rental billing report

Customer Car Mileage Days State Total

Name Make Tax Charge

Brown Buick 850.2 7 $ 10.98 $194.01

The following conditions hold:

1. A Buick cost $0.25 per mile and 25.50 per day.
2. A Chevrolet cost $0.19 per mile and $18.00 per day.
3. A Honda cost $0.15 per mile and $15.25 per day.
4. A Volkswagen cost $0.10 per mile and $13.50 per day.
5. The first 100 miles are free if you exceed 100, but if less than 100, only the first 50 are free.
6. If you rent for more than 6 days you get 1 free day. If you rent for more than 12 days you get 2 free days and 200 additional free miles
7. State sales tax is 6%.

Demonstrate you output in lab and submit your source code and algorithm or flowchart in Blackboard.

The heading of your output must include: (10% of the assignment grade)

1. Your Name
2. Assignment number
3. Due date
4. Appropriate heading for data.

Your Source code must include comment for the following: (10% of the assignment grade)

1. Your Name, Assignment # and Due date
2. Program description
3. Variable (data name) dictionary
4. Code related to input and output of data
5. Formulas used in the code.