Programming Logic - Beginning

152-101

Rental Gas Cost Estimate Design – Part 3

10 points

Program Design
Use your design document from Part 1 to continue for this assignment.
- Provide a IOP for this program Part 1
- Provide a screen layout Part 1
- Provide a TOE chart for this program Part 2
- Provide a flowchart (Visio) for each form event (save as Unit 3 Gas Estimate Flowchart.vsdx)
- Provide pseudocode for each form event Part 2
- Provide 5 test data records and the expected results

Submit: Unit 3 Gas Estimate Design.xlsx and Unit 3 Gas Estimate Flowchart.vsdxs

General Program Requirements

Your relatives own a rental car company and have asked you to create a program to help customers estimate the gasoline costs they will have to pay in addition to the rental fee. The program should first allow the user to enter the customer's name, the date the estimate was provided, and a description of the trip the customer plans to take. This description could be many lines long. Then, the user should be allowed to enter the estimated number of city and highway miles the customer plans to drive (whole numbers). Next, the program must allow the user to enter the estimated miles per gallon (MPG) city and highway the customer's rental car usually gets (might contain decimal places for accuracy). Finally, the program should allow the user to enter the approximate cost of a gallon of gasoline. When the user clicks the calculate button, display the estimated number of gallons needed for the trip and the estimated gasoline cost for the trip. Because the company often provides these estimates well in advance of the rental, your program should display the date the estimate expires. The company guarantees estimates for fifteen days.