Create an application using the following names for the solution and project, respectively:

Van Solution and Van Project. Save the application in the VB2015\Chap03 folder. Change

the form file’s name to Main Form.vb. Change the form’s name to frmMain. **Rent-A-Van**

**wants you to create an application that calculates the total cost of renting a van**. Customers

pay a base fee plus a charge per mile driven. The user will enter the base fee and the charge

per mile driven when the application is started.

**Use text boxes to get**

1. the customer’s name,

2.the mileage at the beginning of the rental period, and

3.the mileage at the end of the rental period.

**Use labels to display**

1.the base fee,

2. the charge per mile driven,

3. the number of miles driven,

4. And the total rental cost.

Be sure to use variables and the TryParse method in

your code. Also be sure to enter the three Option statements in the General Declarations

section. The total rental cost should be displayed with a dollar sign and two decimal places.

Clear the calculated amounts when a change is made to the beginning or ending mileage.

Save the solution, and then start and test the application.

|  |  |  |
| --- | --- | --- |
| **Task**   1. Get the following the information    1. Get a customer’s name    2. Get the mileage at the beginning    3. Get the mileage at the end period 2. Calculate the total rental and total miles driven 3. Display the output    1. the charge per miles driven    2. the number of miles driven    3. the total rental cost    4. the base fee 4. clear screen for the next ride 5. end application 6. Print the receipt | **Objects**  txtName  txtMilesBegin  txtMilesEnd  btnCalc  lblCharges  lblNumMiles  lblTotal  lblBaseFee  btnClear  btnExit  btnPrint | **event**  **none**  **none**  **none**  **click**  **none**  **none**  **none**  **none**  **click**  **click**  **click** |

**User Interface**

Base fee:

::

Customer name:

Charge per miles:

Miles begin:

Total miles driven:

Miles end:

Print

Exit

Clear screen

Calculate

Total cost:

Pseudocode

1. btnCalc

//declare a variable to store values, use constant variable to store rate charge per mile and base fee

* 1. Const decCHARGE\_PER\_MILE As Decimal = 0.69D
  2. Const decBASE\_FEE As Decimal = 19.95D

// use procedure variables to store the following value

* 1. Dim decMilesBegin As Decimal
  2. Dim decMilesEnd As Decimal
  3. Dim decTotalMiles As Decimal
  4. Dim decTotalCost As Decimal

1. Calculate the total miles

decTotalMiles = decMilesEnd – decMilesBegin

1. Calculate the total cost

decTotalCost = (decTotalMiles \* decCHARGE\_PER\_MILE) + decBASE\_FEE

1. Display the output
   1. lblBaseCharges.Text
   2. lblChargeFee.Text
   3. lblMilesDriven.Text
   4. lblTotal.Text