

Programming Logic - Beginning
152-101

Unit 5 - Rent-A-Reck Evaluation Form

Name _____

Score _____ / 20

Update Value _____

[Make all corrections and resubmit to earn update points](#)

☒ Update Recommended

Form Objects

- ☐ (½ point) Form centered on screen, icon changed, title bar set
- ☐ (½ point) Radio buttons added to form to allow user to select type of car
- ☐ (½ point) Radio buttons appropriately named
- ☐ (½ point) Check boxes added to form to allow user to select additional features
- ☐ (½ point) Check boxes appropriately named
- ☐ (½ point) Calculate button is form Accept button
- ☐ (½ point) Clear button is form Cancel button
- ☐ (½ point) Tab order is appropriate

Form Constants and Variables

- ☐ (½ point) Class-level constants created to hold costs for each type of vehicle
- ☐ (½ point) Class-level constants created to hold costs of each additional feature
- ☐ (½ point) Class-level constant created to hold discount percent
- ☐ (+½ point) Class-level constants created to describe “special”
- ☐ (½ point) Class-level variable created to hold value for current radio button
- ☐ (½ point) Class-level variables and constants are appropriately named, typed and described

Calculate Click Event

- ☐ (½ point) Method has variable for number of days rented
- ☐ (½ point) Variable has appropriate name, is of type integer, and is appropriately described
- ☐ (½ point) Variables created to hold four outputs.
- ☐ (½ point) Output variables have appropriate names, are of type decimal, and are appropriately described
- ☐ (½ point) Try-Catch block used to capture input errors (not needed with extra credit)
- ☐ (½ point) Error message appropriate
- ☐ (½ point) Number of days input transferred to variable

- ☐ (½ point) Add on value calculated by adding each feature's cost if the feature is selected
- ☐ (½ point) Vehicle cost calculated by multiplying vehicle selection by number of days
- ☐ (½ point) Calculation included to give 15% (const) discount for luxury cars rented for more than 3 days
- ☐ (½ point) Total rental cost calculated by adding vehicle cost and add on value and subtracting discount amount.
- ☐ (½ point) Outputs are appropriately formatted

- ☐ (½ point) Message box shown with rental information
- ☐ (½ point) Message box has appropriate title and icons.
- ☐ (½ point) Message box concatenates type of car, number of days and total cost.
- ☐ (½ point) Message box message is a complete sentence without grammatical errors
- ☐ (+½ point) Code handles single/plural *day* properly
- ☐ (+½ point) Message includes selected additional features.
- ☐ (+½ point) Additional features included in a grammatically correct way

- ☐ (½ point) Focus set to btnClear after all processing

Clear Click Event

- ☐ (½ point) *Clear* method selects a default radio button
- ☐ (½ point) Clears all check boxes
- ☐ (½ point) Clears the quantity control
- ☐ (½ point) Sets the date picker to today's date
- ☐ (½ point) Clears the output labels
- ☐ (½ point) Sets focus to first input

Form Load Event

- ☐ (½ point) Form Load selects a default radio button
- ☐ (½ point) Form Load sets initial DatePicker value

Radio Button Checked Changed Event

- ☐ (½ point) All radio button Checked Changed events handled by one method
- ☐ (½ point) All vehicle type buttons *wired* to this method
- ☐ (½ point) Case statement used to determine which radio button was checked
- ☐ (½ point) Appropriate price/name transferred to form-level variable

Indentation

- ☐ (½ point) Source code indented properly

Form Level Documentation

- ☐ (½ point) Methods alphabetized
- ☐ (½ point) Spacing used to make code readable
- ☐ (½ point) Appropriate in-line comments included

- ☐ (½ point) Each method includes a purpose description.
- ☐ (½ point) Purpose descriptions use complete sentences, grammatically correct, without spelling errors.
- ☐ (½ point) Purpose descriptions are accurate

Program Documentation

- ☐ (½ point) Documentation appearance is professional (can be combined with Form documentation)
- ☐ (½ point) Program name included
- ☐ (½ point) Student's name included
- ☐ (½ point) Program date included
- ☐ (½ point) Program's purpose uses complete sentences, is grammatically correct, without spelling errors.
- ☐ (½ point) Program's purpose is accurate and complete

- ☐ (½ point) Change log included with initial submission date
- ☐ (½ point) (Updates Only) Dated change log entry provided

Program Design

- ☐ (½ point) Pseudocode for btnCalc matches code
- ☐ (½ point) Pseudocode for radio button processing matches code
- ☐ (½ point) Flowcharts match pseudocode
- ☐ (½ point) Labels provided for all flowchart IF and CASE paths

Challenge Points

- ☐ (+1 points) If all requirements met
 - ☐ (½ point) Second Date Picker added to form. Days Text Box removed from form—replaced with an output label.
 - ☐ (½ point) Rental days calculated by subtracting rental date from return date