Program Cover Sheet

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| --- |
| Name: Austin Rippee |
| Assignment: Assignment2\_KustonKarz |
| List any parts of the assignment that do not work/were not completed:  The program runs smoothly and effectively when startup is from the frmKarzOrderForm. However, when it is run through Sub Main() or modMain, it fails to run smoothly when the program gets on the Invoice form and automatically shuts off. |

|  |
| --- |
| Instructor’s Comments: |
| Grade: |

Program Submission Requirements: (1) all files, zipped and uploaded to Canvas and (2) a completed cover sheet, program execution screenshots and source code printed, **stapled** and turned in during class. Failure to follow the submission requirements will result in points lost on that particular assignment.

'------------------------------------------------------------

'- File Name : frmKarsOrderForm -

'- Part of Project: Order Form -

'------------------------------------------------------------

'- Written By: Austin Rippee -

'- Written On: January 25th, 2022 -

'------------------------------------------------------------

'- File Purpose: -

'- This file serves the purpose as the main window that

'- appears when the user starts the program. The user will

'- enter a name, car type, how many cars, the poweroption,

'- and any other additions

'------------------------------------------------------------

'- Program Purpose: -

'- -

'- The program serves as a way to buy multiple cars in bulk

'- of the same type.

'------------------------------------------------------------

'- Global Variable Dictionary (alphabetically): -

'- (None)

'------------------------------------------------------------

Public Class frmKarsOrderForm

Const dblCoupeCost As Double = 10000 'Sets price for Coupe Car Type

Const dblLuxuryCost As Double = 20000 'Sets price for Luxury Car Type

Const dblSedanCost As Double = 17000 'Sets price for Sedan Car Type

Const dblSportsCost As Double = 25000 'Sets price for Sports Car Type

Const dblSUVCost As Double = 27000 'Sets price for SUV Car Type

Const dblV4Price As Double = 500 'Sets price for V4 Poweroption

Const dblV6Price As Double = 1000 'Sets price for V6 Poweroption

Const dblV8Price As Double = 2500 'Sets price for V8 Poweroption

Const dblV12Price As Double = 7500 'Sets price for V12 Poweroption

Const dblHybridPrice As Double = 3000 'Sets price for Hybrid Poweroption

Const dblElectricPrice As Double = 6000 'Sets price for Electric Poweroption

'------------------------------------------------------------

'- Subprogram Name: btnOrder\_Click -

'------------------------------------------------------------

'- Written By: Austin Rippee -

'- Written On: January 25th, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- -

'- This subroutine is called whenever the user clicks the -

'- order button. The program will take the user-inputed name

'- the carp type, number of cars, and all the options and

'- perform calculations of everything including the overall

'- price of the order–

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender – Identifies which particular control raised the –

'- click event -

'- e – Holds the EventArgs object sent to the routine -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- dblDriveCost - Sets the price of the poweroption from constants

'- dblNumOptions - Keeps track of the number of options selected

'- dblOptionsCost - Keeps track of the total price of the options selected

'- strCarPrice - Creates a variable to store the per car price

'- strGrandTotalPrice - Multiplies total vehcile price with the quantity of cars

'- strOptionsPrice - Converts optionsprice to a currency format

'- strPowerTrainOption - Keeps track of which poweroption was

'- selected

'- strPowerTrainPrice - Converts the poweroption price to a currency format

'- strTextBreak - String that creates a strDup of '=' 50 times

' to create a text break

'- strVehicleTotal - Adds in the car price, options cost, and the

'- poweroption cost and converts that number to a currency format

'- strVehicleTotalPrice - Converts the Vehicle Total to a currency format

'-

'------------------------------------------------------------

Private Sub btnOrder\_Click(sender As Object, e As EventArgs) Handles btnOrder.Click

Dim strTextBreak As String = StrDup(50, "=") 'Creates a "horizontal line" of equal signs 'Initializes strTextBreak

Dim strCarPrice As String = "" 'Intializes strCarPrice as an empty string

If String.IsNullOrEmpty(txtName.Text) Then 'Checks if the name textbox is empty or null

MsgBox("You must add a customer name")

ElseIf lstType.Text = "" Then 'Checks if a car type is selected

MsgBox("You need to select a car type")

ElseIf updQuantity.Value <= 0 Then 'Prevents the user from going below 1 car

MsgBox("You must order at least 1 vehicle")

Else

If lstType.Text = "Coupe" Then 'Checks if Coupe Car Type is selected

strCarPrice = Format(dblCoupeCost, "Currency")

ElseIf lstType.Text = "Luxury" Then 'Checks if Luxury Car Type is selected

strCarPrice = Format(dblLuxuryCost, "Currency")

ElseIf lstType.Text = "Sedan" Then 'Checks if Sedan Car Type is selected

strCarPrice = Format(dblSedanCost, "Currency")

ElseIf lstType.Text = "Sports Edition" Then 'Checks if Sports Car Type is selected

strCarPrice = Format(dblSportsCost, "Currency")

ElseIf lstType.Text = "SUV" Then 'Checks if SUV Car Type is selected

strCarPrice = Format(dblSUVCost, "Currency")

End If

frmKarsInvoiceForm.lstInvoice.Items.Clear() 'Clears the listbox so no message is duplicated after the changeOrder button is pressed on other form

frmKarsInvoiceForm.lstInvoice.Items.Add(strTextBreak.ToString()) 'Adds a textbreak line

frmKarsInvoiceForm.lstInvoice.Items.Add(vbTab + vbTab + "Kustom Karz Order") 'Adds the Invoice Title line

frmKarsInvoiceForm.lstInvoice.Items.Add(strTextBreak.ToString()) 'Adds a textbreak line

frmKarsInvoiceForm.lstInvoice.Items.Add("") 'Adds blank line as a seperator

frmKarsInvoiceForm.lstInvoice.Items.Add("Getting ready to kustom manufacture for " + txtName.Text) 'Adds a line displaying user's name

frmKarsInvoiceForm.lstInvoice.Items.Add("") 'Adds blank line as a seperator

frmKarsInvoiceForm.lstInvoice.Items.Add("There will be " + updQuantity.Text + " car(s) kustom built") 'Adds a line displaying the number of vehicles being requested

frmKarsInvoiceForm.lstInvoice.Items.Add(StrDup(50, "-")) 'Adds a textbreak line

frmKarsInvoiceForm.lstInvoice.Items.Add("Kar form factor:" + vbTab + lstType.Text + vbTab + " at " + CStr(strCarPrice)) 'Adds a line displaying car type and car price

Dim strPowerTrainOption As String = "" 'Initializes strPowerTrainOption as an empty string

Dim strPowerTrainPrice As String = "" 'Initializes strPowerTrainPrice as an empty string

Dim dblDriveCost As Double = 0 'Initializes dblDriveCost as a double of 0

If radV12.Checked Then 'Checks if the V12 power option radio button has been pressed

strPowerTrainOption = "V12" 'Sets name

strPowerTrainPrice = Format(dblV12Price, "Currency") 'Sets price as a currency

dblDriveCost = dblV12Price 'Sets price from the constant

ElseIf radV8.Checked Then 'Checks if the V8 power option radio button has been pressed

strPowerTrainOption = "V8" 'Sets name

strPowerTrainPrice = Format(dblV8Price, "Currency") 'Sets price as a currency

dblDriveCost = dblV8Price 'Sets price from the constant

ElseIf radV6.Checked Then 'Checks if the V6 power option radio button has been pressed

strPowerTrainOption = "V6" 'Sets name

strPowerTrainPrice = Format(dblV6Price, "Currency") 'Sets price as a currency

dblDriveCost = dblV6Price 'Sets price from the constant

ElseIf radV4.Checked Then 'Checks if the V4 power option radio button has been pressed

strPowerTrainOption = "V4" 'Sets name

strPowerTrainPrice = Format(dblV4Price, "Currency") 'Sets price as a currency

dblDriveCost = dblV4Price 'Sets price from the constant

ElseIf radHybrid.Checked Then 'Checks if the Hybrid power option radio button has been pressed

strPowerTrainOption = "Hybrid" 'Sets name

strPowerTrainPrice = Format(dblHybridPrice, "Currency") 'Sets price as a currency

dblDriveCost = dblHybridPrice 'Sets price from the constant

ElseIf radElectric.Checked Then 'Checks if the Electric power option radio button has been pressed

strPowerTrainOption = "Electric" 'Sets name

strPowerTrainPrice = Format(dblElectricPrice, "Currency") 'Sets price as a currency

dblDriveCost = dblElectricPrice 'Sets price from the constant

Else

MsgBox("Please Select a Drive Train Option") 'If nothing is selected (impossible), still has validation that something hasn't been checked

End If

'Adds a line displaying the power option that was selected and its price

frmKarsInvoiceForm.lstInvoice.Items.Add("PowerTrain Option: " + vbTab + CStr(strPowerTrainOption) + vbTab + " at " + CStr(strPowerTrainPrice))

frmKarsInvoiceForm.lstInvoice.Items.Add("") 'Adds blank line as a seperator

Dim dblOptionsCost As Double = 0 'Initializes dblOptionsCost as a double of 0

Dim dblNumOptions As Integer = 0 'Initializes dblNumOptions as a double of 0

'A simple for each statement that checks which checkboxes are checked in the groupbox

For Each c As Control In grpOptions.Controls

If c.GetType Is GetType(CheckBox) Then

Dim cb As CheckBox = DirectCast(c, CheckBox)

If cb.Checked Then

dblNumOptions += 1 'Keeps track of how many options have been selected

dblOptionsCost += 750 'Adds $750 to each option selected

End If

End If

Next

frmKarsInvoiceForm.lstInvoice.Items.Add("Here are the options requested:") 'Adds a line for options requested title

'Checks for checkboxes being selected and displays them in ALPHABETICAL order

If chkAirConditioning.Checked = True Then 'Checks if checkbox is checked

frmKarsInvoiceForm.lstInvoice.Items.Add(vbTab + "Air Conditioning") 'Adds a line displaying Air Conditioning if it is checked

End If

If chkBluetooth.Checked = True Then 'Checks if checkbox is checked

frmKarsInvoiceForm.lstInvoice.Items.Add(vbTab + "Bluetooth") 'Adds a line displaying Bluetooth if it is checked

End If

If chkMP3.Checked = True Then 'Checks if checkbox is checked

frmKarsInvoiceForm.lstInvoice.Items.Add(vbTab + "CD/MP3 Connections") 'Adds a line displaying CD/MP3 connections if it is checked

End If

If chkEntertainment.Checked = True Then 'Checks if checkbox is checked

frmKarsInvoiceForm.lstInvoice.Items.Add(vbTab + "Entertainment Package") 'Adds a line displaying Entertainment Package if it is checked

End If

If chkGPS.Checked = True Then 'Checks if checkbox is checked

frmKarsInvoiceForm.lstInvoice.Items.Add(vbTab + "GPS") 'Adds a line displaying GPS if it is checked

End If

If chkHeated.Checked = True Then 'Checks if checkbox is checked

frmKarsInvoiceForm.lstInvoice.Items.Add(vbTab + "Heated Seats") 'Adds a line displaying Heated Seats if it is checked

End If

If chkLeather.Checked = True Then 'Checks if checkbox is checked

frmKarsInvoiceForm.lstInvoice.Items.Add(vbTab + "Leather Seats") 'Adds a line displaying Leather Seats if it is checked

End If

If chkStereo.Checked = True Then 'Checks if checkbox is checked

frmKarsInvoiceForm.lstInvoice.Items.Add(vbTab + "Premium Stereo") 'Adds a line displaying Premium Stereo if it is checked

End If

If chkDefroster.Checked = True Then 'Checks if checkbox is checked

frmKarsInvoiceForm.lstInvoice.Items.Add(vbTab + "Rear Defroster") 'Adds a line displaying Rear Defroster if it is checked

End If

'Initializes strOptionsPrice as a string of dblOptionsCost as a currency

Dim strOptionsPrice As String = Format(CStr(dblOptionsCost), "Currency")

'Initializes strVehicleTotal as a string of the sum of strCarPrice, dblOptionsCost, dblDriveCost as a currency

Dim strVehicleTotal As String = Format(CStr(strCarPrice + dblOptionsCost + dblDriveCost), "Currency")

'Initializes strGrandTotalPrice as a string multiplying the amount of cars with the total price as a currency

Dim strGrandTotalPrice As String = Format(CStr(strVehicleTotal \* updQuantity.Value.ToString()), "Currency")

'Initializes strVehicleTotalPrice as a string of strVehicleTotal as a currency

Dim strVehicleTotalPrice As String = Format(CStr(strVehicleTotal), "Currency")

'Adds a line displaying the number of options selected the total options price

frmKarsInvoiceForm.lstInvoice.Items.Add(CStr(dblNumOptions) + " Options Selected for a total of " + CStr(strOptionsPrice))

frmKarsInvoiceForm.lstInvoice.Items.Add("") 'Adds blank line as a seperator

frmKarsInvoiceForm.lstInvoice.Items.Add("") 'Adds blank line as a seperator

'Adds a line displaying the per vehicle total price

frmKarsInvoiceForm.lstInvoice.Items.Add("Per Vehicle Total:" + vbTab + vbTab + CStr(strVehicleTotalPrice))

frmKarsInvoiceForm.lstInvoice.Items.Add(StrDup(50, "-")) 'Adds a textbreak line

'Adds a line that displays the number of cars ordered

frmKarsInvoiceForm.lstInvoice.Items.Add("Quantity Ordered:" + vbTab + vbTab + updQuantity.Value.ToString())

frmKarsInvoiceForm.lstInvoice.Items.Add(StrDup(50, "-")) 'Adds a textbreak line

'Adds a line ti display the grand total price

frmKarsInvoiceForm.lstInvoice.Items.Add("Grand Total:" + vbTab + vbTab + CStr(strGrandTotalPrice))

frmKarsInvoiceForm.lstInvoice.Items.Add("") 'Adds blank line as a seperator

frmKarsInvoiceForm.lstInvoice.Items.Add(strTextBreak.ToString()) 'Adds a textbreak line

Me.Visible = False 'Closes the order form

frmKarsInvoiceForm.Visible = True 'Opens the invoice form

End If

End Sub

'------------------------------------------------------------

'- Subprogram Name: frmKarsOrderForm\_FormClosing

'------------------------------------------------------------

'- Written By: Austin Rippee -

'- Written On: January 25th, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- -

'- This subroutine is called whenever the user is exiting the

'- form. The program prohibits the user from exiting the form

'- and suggests going to the invoice form to actually close

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender – Identifies which particular control raised the –

'- click event -

'- e – Holds the EventArgs object sent to the routine -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

Private Sub frmKarsOrderForm\_FormClosing(sender As Object, e As FormClosingEventArgs) Handles Me.FormClosing

'Displays the message box that the user cannot exit the form

MessageBox.Show("Sorry but the application can only be closed on the Invoice Screen" + vbCrLf + "Please press Place Order to go to that screen...")

e.Cancel = True

End Sub

End Class

'------------------------------------------------------------

'- File Name : frmKarsInvoiceForm.frm -

'- Part of Project: Invoice Form -

'------------------------------------------------------------

'- Written By: Austin Rippee -

'- Written On: January 25th, 2022 -

'------------------------------------------------------------

'- File Purpose: -

'- This file contains the invoice form code in which interacts

'- with the invoice form where the user will be shown the prices

'- of all of their options -

'------------------------------------------------------------

Public Class frmKarsInvoiceForm

'------------------------------------------------------------

'- Subprogram Name: btnExit\_Click -

'------------------------------------------------------------

'- Written By: Austin Rippee -

'- Written On: January 25th, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- -

'- This subroutine is called whenever the user clicks the -

'- exit button. The program will close out the form and end

'- the whole application –

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender – Identifies which particular control raised the –

'- click event -

'- e – Holds the EventArgs object sent to the routine -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

Private Sub btnExit\_Click(sender As Object, e As EventArgs) Handles btnExit.Click

Me.Close() 'Closes current form (frmKarsInvoiceForm)

End Sub

'------------------------------------------------------------

'- Subprogram Name: btnQuit\_Click -

'------------------------------------------------------------

'- Written By: Austin Rippee -

'- Written On: January 25th, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- -

'- This subroutine is called whenever the user is attempting

'- to close out the application whether it is the 'X' button

'- or the physical exit button –

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender – Identifies which particular control raised the –

'- click event -

'- e – Holds the EventArgs object sent to the routine -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

Private Sub frmKarsInvoiceForm\_FormClosing(sender As Object, e As FormClosingEventArgs) Handles Me.FormClosing

'If the user attempts to close the invoice form, a message box will be displayed asking if the user want to close the application

If MessageBox.Show("Are you sure you want to quit?", "Kustom Karz Order System", MessageBoxButtons.YesNo) = DialogResult.No Then

e.Cancel = True

Else

End

End If

End Sub

'------------------------------------------------------------

'- Subprogram Name: btnChangeOrder\_Click -

'------------------------------------------------------------

'- Written By: Austin Rippee -

'- Written On: January 25th, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- -

'- This subroutine is called whenever the user clicks the -

'- changeOrder button. The program will return back to the

'- order form in which none of the user's options have been

'- changed.

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender – Identifies which particular control raised the –

'- click event -

'- e – Holds the EventArgs object sent to the routine -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

Private Sub btnChangeOrder\_Click(sender As Object, e As EventArgs) Handles btnChangeOrder.Click

Me.Visible = False 'Closes invoice form

frmKarsOrderForm.Visible = True 'Opens order form

End Sub

'------------------------------------------------------------

'- Subprogram Name: btnSubmit\_Click -

'------------------------------------------------------------

'- Written By: Austin Rippee -

'- Written On: January 25th, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- -

'- This subroutine is called whenever the user clicks the -

'- submit button. The program will promopt the user that the

'- order has been submitted to manfuacturing successfully.

'- This doesn't do anything besides prompt a messagebox and

'- return to the order form with all textboxes and options

'- unselected to start a new order–

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender – Identifies which particular control raised the –

'- click event -

'- e – Holds the EventArgs object sent to the routine -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

Private Sub btnSubmit\_Click(sender As Object, e As EventArgs) Handles btnSubmit.Click

MessageBox.Show("Order successfully submitted to manfuacturing.", "Kustom Karz Ordering System") 'Successfully completed messagebox

Me.Visible = False 'Closes the invoice form

frmKarsOrderForm.txtName.Text = "" 'Clears name textbox

frmKarsOrderForm.lstType.SelectedIndex = -1 'Sets value of cartype to index -1 (no value)

frmKarsOrderForm.updQuantity.Value = "1" 'Sets the car quantity to 1 (Lowest value)

frmKarsOrderForm.radV12.Checked = True 'Checks the first power option

frmKarsOrderForm.chkLeather.Checked = False 'Unchecks leathers seats

frmKarsOrderForm.chkHeated.Checked = False 'Unchecks heated seats

frmKarsOrderForm.chkDefroster.Checked = False 'Unchecks defroster

frmKarsOrderForm.chkAirConditioning.Checked = False 'Unchecks Air Conditoning

frmKarsOrderForm.chkStereo.Checked = False 'Unchecks stereo

frmKarsOrderForm.chkMP3.Checked = False 'Unchecks audio output

frmKarsOrderForm.chkBluetooth.Checked = False 'Unchecks bluetooth

frmKarsOrderForm.chkGPS.Checked = False 'Unchecks GPS

frmKarsOrderForm.chkEntertainment.Checked = False 'Unchecks entertainment system

frmKarsOrderForm.Visible = True 'Opens the order form with everything "back to normal"

End Sub

End Class

Module modMain

'------------------------------------------------------------

'- Subprogram Name: Main() -

'------------------------------------------------------------

'- Written By: Austin Rippee -

'- Written On: January 25th, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- -

'- This subroutine is called whenever the user loads the program.

'- Theoretically, the order form will show and then with the

'- press of the exit button or the X button of the program, the

'- form will call the function ApplicationExit()

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender – Identifies which particular control raised the –

'- click event -

'- e – Holds the EventArgs object sent to the routine -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

Sub Main()

frmKarsOrderForm.ShowDialog()

'If frmKarsInvoiceForm.DialogResult.Cancel Then

'ApplicationExit()

'End If

If frmKarsInvoiceForm.btnExit.Enabled Then

ApplicationExit()

End If

End Sub

'------------------------------------------------------------

'- Function Name: ApplicationExit() -

'------------------------------------------------------------

'- Written By: Austin Rippee -

'- Written On: January 25th, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- -

'- This function is called when the user clicks on the exit

'- button or presses the X button, the function will performclick

'- btnExit, making the program close the form and end the application

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender – Identifies which particular control raised the –

'- click event -

'- e – Holds the EventArgs object sent to the routine -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'- Returns: -

'- Boolean – If the program is exiting or not -

'------------------------------------------------------------

Public Function ApplicationExit()

frmKarsInvoiceForm.btnExit.PerformClick()

Return True

End Function

End Module

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, text, application, email

Description automatically generatedGraphical user interface, text, application

Description automatically generatedTable

Description automatically generated with medium confidenceGraphical user interface, text

Description automatically generatedA picture containing graphical user interface

Description automatically generated