Public Class Question4

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

'Declare variables

Dim adultPricePerTicket, adultTicketsSold, childPricePerTicket, childTicketsSold, adultTicketSales, childTicketSales As Double

Dim boxOfficeReceipts, netAdultTicketSales, netChildTicketSales As Double

'Initialize boxOfficeReceipts

boxOfficeReceipts = 0.2

'Calculation code inside try and catch block

Try

'Set variables to the values that are entered in the text boxes

adultPricePerTicket = txtBoxAdultPricePerTicket.Text

adultTicketsSold = txtBoxAdultTicketsSold.Text

childPricePerTicket = txtBoxChildPricePerTicket.Text

childTicketsSold = txtBoxChildTicketsSold.Text

'Calculate sales by multiplying ticket price and tickets sold

adultTicketSales = adultPricePerTicket \* adultTicketsSold

childTicketSales = childPricePerTicket \* childTicketsSold

'Display the calculated results on labels in currency format

lblGrossAdultSales.Text = adultTicketSales.ToString("c")

lblGrossChildSales.Text = childTicketSales.ToString("c")

lblTotalGrossRevenue.Text = (adultTicketSales + childTicketSales).ToString("c")

'Calculate net prices by multiplying values by constant 20%

netAdultTicketSales = (adultTicketSales \* boxOfficeReceipts)

netChildTicketSales = (childTicketSales \* boxOfficeReceipts)

'Display the calculated net values on labels in currency format

lblNetAdultSales.Text = netAdultTicketSales.ToString("c")

lblNetChildSales.Text = netChildTicketSales.ToString("c")

lblTotalNetRevenue.Text = (netAdultTicketSales + netChildTicketSales).ToString("c")

Catch

' Display Error Message

MessageBox.Show("Please enter numerical values in the textboxes")

End Try

End Sub

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

'Clear all textboxes and labels of its existing content

txtBoxAdultPricePerTicket.Clear()

txtBoxAdultTicketsSold.Clear()

txtBoxChildPricePerTicket.Clear()

txtBoxChildTicketsSold.Clear()

lblGrossAdultSales.Text = String.Empty

lblGrossChildSales.Text = String.Empty

lblTotalGrossRevenue.Text = String.Empty

lblNetAdultSales.Text = String.Empty

lblNetChildSales.Text = String.Empty

lblTotalNetRevenue.Text = String.Empty

End Sub

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

'Exit button

Me.Close()

End Sub

End Class

Public Class Question12

'Declare variables

Dim dblRate, dblResult, dblResultA, dblResultB, dblResultC As Double

Dim strSaveB, strSaveC As String

'Restrictions for textbox

Private Sub txtBoxHours\_Leave(sender As Object, e As EventArgs) Handles txtBoxHours.Leave

dblRate = CDbl(txtBoxHours.Text)

If dblRate > 744 Then

MessageBox.Show("Number cannot exceed 744")

txtBoxHours.Focus()

txtBoxHours.Clear()

End If

End Sub

'Calculate results

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

Try

dblRate = CDbl(txtBoxHours.Text)

If btnRadioA.Checked = True Then

If dblRate <= 10 Then

dblResult = 9.95

Else : dblResult = (dblRate - 10) \* 2 + 9.95

End If

ElseIf btnRadioB.Checked = True Then

If dblRate <= 20 Then

dblResult = 14.95

Else : dblResult = (dblRate - 20) \* 1 + 14.95

End If

ElseIf btnRadioC.Checked = True Then

dblResult = 19.95

End If

If cbNonprofit.Checked = True Then

dblResult = dblResult \* 0.8

Else

dblResult = dblResult

End If

If cbPotential.Checked = True Then

If btnRadioA.Checked = True Then

If dblRate <= 10 Then

dblResultA = 9.95

dblResultB = 14.95

dblResultC = 19.95

Else : dblResultA = (dblRate - 10) \* 2 + 9.95

If dblRate > 20 Then

dblResultB = (dblRate - 20) \* 1 + 14.95

dblResultC = 19.95

End If

End If

If dblResultB < dblResultA Then

strSaveB = " Save " + (dblResultA - dblResultB).ToString("c") + " with package B "

Else : strSaveB = " no savings with package B "

End If

If dblResultC < dblResultA Then

strSaveC = " Save " + (dblResultA - dblResultC).ToString("c") + " with package C "

Else : strSaveC = " no savings with package C "

End If

End If

If btnRadioB.Checked = True Then

If dblRate <= 20 Then

dblResultB = 14.95

dblResultC = 19.95

Else : dblResultB = (dblRate - 20) \* 1 + 14.95

dblResultC = 19.95

End If

If dblResultC < dblResultB Then

strSaveC = " Save " + (dblResultB - dblResultC).ToString("c") + " with package C "

Else : strSaveC = " no savings with package C "

End If

End If

End If

lblResult.Text = dblResult.ToString("c") + strSaveB + strSaveC

Catch

MessageBox.Show("Please enter a number")

End Try

End Sub

'Clear button

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

txtBoxHours.Clear()

btnRadioA.Checked = False

btnRadioB.Checked = False

btnRadioC.Checked = False

cbNonprofit.Checked = False

cbPotential.Checked = False

lblResult.Text = ""

strSaveB = ""

strSaveC = ""

End Sub

End Class

Public Class Question4

'Declare variables

Dim strRunnerOneName, strRunnerTwoName, strRunnerThreeName, strFirstPlace, strSecondPlace, strThirdPlace As String

Dim dblRunnerOneTime, dblRunnerTwoTime, dblRunnerThreeTime As Double

'Data restriction for textbox

Private Sub txtBoxRunner1Name\_Leave(sender As Object, e As EventArgs) Handles txtBoxRunner1Name.Leave

If txtBoxRunner1Name.Text Is String.Empty Then

MessageBox.Show("Please enter a name")

txtBoxRunner1Name.Focus()

End If

strRunnerOneName = txtBoxRunner1Name.Text

End Sub

'Data restriction for textbox

Private Sub txtBoxRunner2Name\_Leave(sender As Object, e As EventArgs) Handles txtBoxRunner2Name.Leave

If txtBoxRunner2Name.Text Is String.Empty Then

MessageBox.Show("Please enter a name")

txtBoxRunner2Name.Focus()

End If

strRunnerTwoName = txtBoxRunner2Name.Text

End Sub

'Data restriction for textbox

Private Sub txtBoxRunner3Name\_Leave(sender As Object, e As EventArgs) Handles txtBoxRunner3Name.Leave

If txtBoxRunner3Name.Text Is String.Empty Then

MessageBox.Show("Please enter a name")

txtBoxRunner3Name.Focus()

End If

strRunnerThreeName = txtBoxRunner3Name.Text

End Sub

'Data restriction for textbox

Private Sub txtBoxRunner1Time\_Leave(sender As Object, e As EventArgs) Handles txtBoxRunner1Time.Leave

Try

dblRunnerOneTime = CDbl(txtBoxRunner1Time.Text)

Catch

' Display Error Message

MessageBox.Show("Please enter numerical values")

txtBoxRunner1Time.Focus()

End Try

If dblRunnerOneTime < 0 Then

MessageBox.Show("Please enter a positive number")

txtBoxRunner1Time.Focus()

End If

End Sub

'Data restriction for textbox

Private Sub txtBoxRunner2Time\_Leave(sender As Object, e As EventArgs) Handles txtBoxRunner2Time.Leave

Try

dblRunnerTwoTime = CDbl(txtBoxRunner2Time.Text)

Catch

' Display Error Message

MessageBox.Show("Please enter numerical values")

txtBoxRunner2Time.Focus()

End Try

If dblRunnerTwoTime < 0 Then

MessageBox.Show("Please enter a positive number")

txtBoxRunner2Time.Focus()

End If

End Sub

'Data restriction for textbox

Private Sub txtBoxRunner3Time\_Leave(sender As Object, e As EventArgs) Handles txtBoxRunner3Time.Leave

Try

dblRunnerThreeTime = CDbl(txtBoxRunner3Time.Text)

Catch

' Display Error Message

MessageBox.Show("Please enter numerical values")

txtBoxRunner3Time.Focus()

End Try

If dblRunnerThreeTime < 0 Then

MessageBox.Show("Please enter a positive number")

txtBoxRunner3Time.Focus()

End If

End Sub

'Calculate winner of race

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

If dblRunnerOneTime < dblRunnerTwoTime And dblRunnerOneTime < dblRunnerThreeTime Then

strFirstPlace = CStr(dblRunnerOneTime)

lblFirstResult.Text = strRunnerOneName

If dblRunnerTwoTime < dblRunnerThreeTime Then

strSecondPlace = CStr(dblRunnerTwoTime)

lblSecondResult.Text = strRunnerTwoName

strThirdPlace = CStr(dblRunnerThreeTime)

lblThirdResult.Text = strRunnerThreeName

ElseIf dblRunnerTwoTime > dblRunnerThreeTime Then

strSecondPlace = CStr(dblRunnerThreeTime)

lblSecondResult.Text = strRunnerThreeName

strThirdPlace = CStr(dblRunnerTwoTime)

lblThirdResult.Text = strRunnerTwoName

End If

End If

If dblRunnerTwoTime < dblRunnerOneTime And dblRunnerTwoTime < dblRunnerThreeTime Then

strFirstPlace = CStr(dblRunnerTwoTime)

lblFirstResult.Text = strRunnerTwoName

If dblRunnerOneTime < dblRunnerThreeTime Then

strSecondPlace = CStr(dblRunnerOneTime)

lblSecondResult.Text = strRunnerOneName

strThirdPlace = CStr(dblRunnerThreeTime)

lblThirdResult.Text = strRunnerThreeName

ElseIf dblRunnerOneTime > dblRunnerThreeTime Then

strSecondPlace = CStr(dblRunnerThreeTime)

lblSecondResult.Text = strRunnerThreeName

strThirdPlace = CStr(dblRunnerOneTime)

lblThirdResult.Text = strRunnerOneName

End If

End If

If dblRunnerThreeTime < dblRunnerTwoTime And dblRunnerThreeTime < dblRunnerOneTime Then

strFirstPlace = CStr(dblRunnerThreeTime)

lblFirstResult.Text = strRunnerThreeName

If dblRunnerTwoTime < dblRunnerOneTime Then

strSecondPlace = CStr(dblRunnerTwoTime)

lblSecondResult.Text = strRunnerTwoName

strThirdPlace = CStr(dblRunnerOneTime)

lblThirdResult.Text = strRunnerOneName

ElseIf dblRunnerTwoTime > dblRunnerOneTime Then

strSecondPlace = CStr(dblRunnerOneTime)

lblSecondResult.Text = strRunnerOneName

strThirdPlace = CStr(dblRunnerTwoTime)

lblThirdResult.Text = strRunnerTwoName

End If

End If

End Sub

'Clear button

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

txtBoxRunner1Name.Clear()

txtBoxRunner2Name.Clear()

txtBoxRunner3Name.Clear()

txtBoxRunner1Time.Clear()

txtBoxRunner2Time.Clear()

txtBoxRunner3Time.Clear()

lblFirstResult.Text = String.Empty

lblSecondResult.Text = String.Empty

lblThirdResult.Text = String.Empty

End Sub

'Exit button

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

Me.Close()

End Sub

End Class

Public Class Question6

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

' Declare Variables

Dim intStoreOneSales, intStoreTwoSales, intStoreThreeSales, intStoreFourSales, intStoreFiveSales As Integer

Dim intStoreOneBar, intStoreTwoBar, intStoreThreeBar, intStoreFourBar, intStoreFiveBar As Integer

Dim strNumberOfBars As String = ""

' Gather store sales

Try

intStoreOneSales = txtBoxStore1.Text()

intStoreTwoSales = txtBoxStore2.Text()

intStoreThreeSales = txtBoxStore3.Text()

intStoreFourSales = txtBoxStore4.Text()

intStoreFiveSales = txtBoxStore5.Text()

' Calculate number of bars for each store

intStoreOneBar = intStoreOneSales / 100

intStoreTwoBar = intStoreTwoSales / 100

intStoreThreeBar = intStoreThreeSales / 100

intStoreFourBar = intStoreFourSales / 100

intStoreFiveBar = intStoreFiveSales / 100

' For loop for drawing store 1 bar

For i = 0 To intStoreOneBar - 1

strNumberOfBars += "\*"

Next

lstBoxBarChart.Items.Add("Store 1:" & strNumberOfBars)

' reset bars

strNumberOfBars = ""

' For loop for drawing store 2 bar

For i = 0 To intStoreTwoBar - 1

strNumberOfBars += "\*"

Next

lstBoxBarChart.Items.Add("Store 2:" & strNumberOfBars)

' reset bars

strNumberOfBars = ""

' For loop for drawing store 3 bar

For i = 0 To intStoreThreeBar - 1

strNumberOfBars += "\*"

Next

lstBoxBarChart.Items.Add("Store 3:" & strNumberOfBars)

' reset bars

strNumberOfBars = ""

' For loop for drawing store 4 bar

For i = 0 To intStoreFourBar - 1

strNumberOfBars += "\*"

Next

lstBoxBarChart.Items.Add("Store 4:" & strNumberOfBars)

' reset bars

strNumberOfBars = ""

' For loop for drawing store 5 bar

For i = 0 To intStoreFiveBar - 1

strNumberOfBars += "\*"

Next

lstBoxBarChart.Items.Add("Store 5:" & strNumberOfBars)

' reset bars

strNumberOfBars = ""

Catch

MessageBox.Show("Please enter numeric values in textbox")

End Try

End Sub

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

Me.Close()

End Sub

End Class

Public Class Question3

' Declare Variables

Dim intNumberOfDays, intRegistrationFee, intFeePerDay, intTotal As Integer

Dim blnSelectFirst, blnSelectSecond As Boolean

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

Select Case lstBoxPickWorkshop.SelectedIndex

Case 0

intNumberOfDays = 3

intRegistrationFee = 595

blnSelectFirst = True

Case 1

intNumberOfDays = 3

intRegistrationFee = 695

blnSelectFirst = True

Case 2

intNumberOfDays = 3

intRegistrationFee = 995

blnSelectFirst = True

Case 3

intNumberOfDays = 5

intRegistrationFee = 1295

blnSelectFirst = True

Case 4

intNumberOfDays = 1

intRegistrationFee = 395

blnSelectFirst = True

End Select

Select Case lstBoxPickLocation.SelectedIndex

Case 0

intFeePerDay = 95

blnSelectSecond = True

Case 1

intFeePerDay = 125

blnSelectSecond = True

Case 2

intFeePerDay = 110

blnSelectSecond = True

Case 3

intFeePerDay = 100

blnSelectSecond = True

Case 4

intFeePerDay = 92

blnSelectSecond = True

Case 5

intFeePerDay = 90

blnSelectSecond = True

End Select

' Calculate total

If blnSelectFirst And blnSelectSecond = True Then

intTotal = (intFeePerDay \* intNumberOfDays) + intRegistrationFee

lstBoxListCosts.Items.Add(intTotal.ToString("c"))

Else

MessageBox.Show("Please select both columns")

End If

End Sub

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

' Declare variables

Dim intListCostBoxLength As Integer = lstBoxListCosts.Items.Count

Dim intTotalCost As Integer

' Initiate loop

For i = 0 To intListCostBoxLength - 1

intTotalCost += lstBoxListCosts.Items(i)

Next

' set the total cost field

txtBoxTotalCost.Text = intTotalCost.ToString("c")

End Sub

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

' Clear fields

lstBoxPickWorkshop.ClearSelected()

lstBoxPickLocation.ClearSelected()

txtBoxTotalCost.Clear()

lstBoxListCosts.Items.Clear()

blnSelectFirst = False

blnSelectSecond = False

End Sub

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

Me.Close()

End Sub

End Class

Public Class Question6

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

'Initialize variables

Try

Dim dblDays As Double = CDbl(txtBoxDays.Text)

Dim dblMiles As Double = CDbl(txtBoxMiles.Text)

Dim dblAir As Double = CDbl(txtBoxAir.Text)

Dim dblCarFees As Double = CDbl(txtBoxCarFees.Text)

Dim dblParking As Double = CDbl(txtBoxParking.Text)

Dim dblTaxi As Double = CDbl(txtBoxTaxi.Text)

Dim dblRegiFees As Double = CDbl(txtBoxRegiFees.Text)

Dim dblLodge As Double = CDbl(txtBoxLodge.Text)

Dim dblMeals As Double = CDbl(txtBoxMeals.Text)

'Calculate and display total expenses

Dim dblExpenses As Double

dblExpenses = (0.27 \* dblMiles) + dblAir + dblCarFees + dblParking + dblTaxi + dblRegiFees + (dblDays \* dblLodge) + dblMeals

lblExpenses.Text = dblExpenses.ToString("c")

'Calculate reimbursements, exceedings, savings

'Meals

Dim dblReimburseMeals As Double

Dim dblExceedMeals As Double

Dim dblSavingsMeals As Double

If (dblMeals / dblDays) > 37 Then

dblExceedMeals = dblMeals - (dblDays \* 37)

dblReimburseMeals = 37 \* dblDays

Else

dblSavingsMeals = (dblDays \* 37) - dblMeals

dblReimburseMeals = dblMeals

End If

'Parking

Dim dblReimburseParking As Double

Dim dblExceedParking As Double

Dim dblSavingsParking As Double

If (dblParking / dblDays) > 10 Then

dblExceedParking = dblParking - (dblDays \* 10)

dblReimburseParking = 10 \* dblDays

Else

dblSavingsParking = (dblDays \* 10) - dblParking

dblReimburseParking = dblParking

End If

'Taxi

Dim dblReimburseTaxi As Double

Dim dblExceedTaxi As Double

Dim dblSavingsTaxi As Double

If (dblTaxi / dblDays) > 20 Then

dblExceedTaxi = dblTaxi - (dblDays \* 20)

dblReimburseTaxi = 20 \* dblDays

Else

dblSavingsTaxi = (dblDays \* 20) - dblTaxi

dblReimburseTaxi = dblTaxi

End If

'Lodging

Dim dblReimburseLodge As Double

Dim dblExceedLodge As Double

Dim dblSavingsLodge As Double

If dblLodge > 95 Then

dblExceedLodge = (dblLodge - 95) \* dblDays

dblReimburseLodge = 95 \* dblDays

Else

dblSavingsLodge = (95 - dblLodge) \* dblDays

dblReimburseLodge = dblLodge \* dblDays

End If

'Miles

Dim dblReimburseMiles As Double

dblReimburseMiles = 0.27 \* dblMiles

'Total

Dim dblReimburseTotal As Double

Dim dblExceedTotal As Double

Dim dblSavingsTotal As Double

dblReimburseTotal = dblReimburseMeals + dblReimburseParking + dblReimburseTaxi + dblReimburseLodge + dblReimburseMiles

dblExceedTotal = dblExceedMeals + dblExceedParking + dblExceedTaxi + dblExceedLodge

dblSavingsTotal = dblSavingsMeals + dblSavingsParking + dblSavingsTaxi + dblSavingsLodge

'Display results

lblReimburse.Text = dblReimburseTotal.ToString("c")

lblExceed.Text = dblExceedTotal.ToString("c")

lblSavings.Text = dblSavingsTotal.ToString("c")

Catch

MessageBox.Show("Please enter a valid number in the text box")

End Try

End Sub

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

'clear button

txtBoxDays.Clear()

txtBoxMiles.Clear()

txtBoxAir.Clear()

txtBoxCarFees.Clear()

txtBoxParking.Clear()

txtBoxTaxi.Clear()

txtBoxRegiFees.Clear()

txtBoxLodge.Clear()

txtBoxMeals.Clear()

lblExpenses.Text = ""

lblReimburse.Text = ""

lblExceed.Text = ""

lblSavings.Text = ""

End Sub

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

'exit button

Me.Close()

End Sub

End Class

Public Class Question2

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

PrintForm.Show()

End Sub

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

AudioForm.Show()

End Sub

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

Me.Close()

End Sub

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

MessageBox.Show("Audio/Print Books Price Quote System Version 1.0")

End Sub

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

lblSubtotal.Text = ""

lblTax.Text = ""

lblShipping.Text = ""

lblTotal.Text = ""

lstboxProductSelected.Items.Clear()

End Sub

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

lstboxProductSelected.Items.Remove(lstboxProductSelected.SelectedItem)

CalculateTotal(dblPrice(lstboxProductSelected.SelectedItem))

End Sub

Sub CalculateTotal(ByRef dblCalcTotal As Double)

Dim dblSubTotal As Double

Dim dblShipping As Double

Dim dblTax As Double

Dim dblTotal As Double

For i = 0 To lstboxProductSelected.Items.Count - 1

dblSubTotal += dblPrice(lstboxProductSelected.Items(i))

dblShipping += 2

Next

dblTax = dblSubTotal \* 0.06

dblTotal = dblSubTotal + dblTax + dblShipping

lblSubtotal.Text = dblSubTotal.ToString("c")

lblTax.Text = dblTax.ToString("c")

lblShipping.Text = dblShipping.ToString("c")

lblTotal.Text = dblTotal.ToString("c")

End Sub

Function dblPrice(ByRef StrListItem As String) As Double

Dim dblItemPrice As Double

Select Case (StrListItem)

Case "I Did It Your Way (Print)"

dblItemPrice = 11.95

Case "The History of Scotland (Print)"

dblItemPrice = 14.5

Case "Learn Calculus In One Day (Print)"

dblItemPrice = 29.95

Case "Feel the Stress (Print)"

dblItemPrice = 18.5

Case "Learn Calculus In One Day (Audio)"

dblItemPrice = 29.95

Case "The History of Scotland (Audio)"

dblItemPrice = 14.5

Case "The Science of Body Language (Audio)"

dblItemPrice = 12.95

Case "Relaxation Techniques (Audio)"

dblItemPrice = 11.5

End Select

Return dblItemPrice

End Function

End Class

Public Class PrintForm

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

Me.Close()

End Sub

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

Select Case lstboxPrint.SelectedIndex

Case 0

Question2.lstboxProductSelected.Items.Add(lstboxPrint.SelectedItem)

Case 1

Question2.lstboxProductSelected.Items.Add(lstboxPrint.SelectedItem)

Case 2

Question2.lstboxProductSelected.Items.Add(lstboxPrint.SelectedItem)

Case 3

Question2.lstboxProductSelected.Items.Add(lstboxPrint.SelectedItem)

End Select

Question2.CalculateTotal(Question2.dblPrice(Question2.lstboxProductSelected.SelectedItem))

End Sub

End Class

Public Class AudioForm

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

Me.Close()

End Sub

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

Select Case lstboxAudio.SelectedIndex

Case 0

Question2.lstboxProductSelected.Items.Add(lstboxAudio.SelectedItem)

Case 1

Question2.lstboxProductSelected.Items.Add(lstboxAudio.SelectedItem)

Case 2

Question2.lstboxProductSelected.Items.Add(lstboxAudio.SelectedItem)

Case 3

Question2.lstboxProductSelected.Items.Add(lstboxAudio.SelectedItem)

End Select

Question2.CalculateTotal(Question2.dblPrice(Question2.lstboxProductSelected.SelectedItem))

End Sub

End Class

Public Class FamilyForm

Function Radiovalue(ByRef btnRadio As RadioButton) As Double

Dim dblPrice As Double

Select Case btnRadio.Text

Case "Model 100"

dblPrice = 29.95

Case "Model 110"

dblPrice = 49.95

Case "Model 200"

dblPrice = 99.95

Case "800 Minutes/Month"

dblPrice = 45.0

Case "1500 Minutes/Month"

dblPrice = 65.0

Case "Unlimited Minutes"

dblPrice = 99.0

End Select

Return dblPrice

End Function

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

Dim dblPhoneNum As Double

Try

dblPhoneNum = CDbl(txtboxPhones.Text)

If rdbtn100.Checked = True Then

lblPhoneSubtotal.Text = (dblPhoneNum \* Radiovalue(rdbtn100)).ToString("c")

lblTax.Text = (0.06 \* dblPhoneNum \* Radiovalue(rdbtn100)).ToString("c")

lblPhoneTotal.Text = (1.06 \* dblPhoneNum \* Radiovalue(rdbtn100)).ToString("c")

ElseIf rdbtn110.Checked = True Then

lblPhoneSubtotal.Text = (dblPhoneNum \* Radiovalue(rdbtn110)).ToString("c")

lblTax.Text = (0.06 \* dblPhoneNum \* Radiovalue(rdbtn110)).ToString("c")

lblPhoneTotal.Text = (1.06 \* dblPhoneNum \* Radiovalue(rdbtn110)).ToString("c")

ElseIf rdbtn200.Checked = True Then

lblPhoneSubtotal.Text = (dblPhoneNum \* Radiovalue(rdbtn200)).ToString("c")

lblTax.Text = (0.06 \* dblPhoneNum \* Radiovalue(rdbtn200)).ToString("c")

lblPhoneTotal.Text = (1.06 \* dblPhoneNum \* Radiovalue(rdbtn200)).ToString("c")

End If

If rdbtn800.Checked = True Then

lblPackageCharge.Text = Radiovalue(rdbtn800).ToString("c")

ElseIf rdbtn1500.Checked = True Then

lblPackageCharge.Text = Radiovalue(rdbtn1500).ToString("c")

ElseIf rdbtnUnlimited.Checked = True Then

lblPackageCharge.Text = Radiovalue(rdbtnUnlimited).ToString("c")

End If

If chboxEmail.Checked = True And chboxText.Checked = True Then

lblOptions.Text = "$35.00"

ElseIf chboxText.Checked = True Then

lblOptions.Text = "$10.00"

ElseIf chboxEmail.Checked = True Then

lblOptions.Text = "$25.00"

Else

lblOptions.Text = "$0.00"

End If

lblTotalMonthlyCharge.Text = (CDbl(lblOptions.Text) + CDbl(lblPackageCharge.Text)).ToString("c")

Catch

MessageBox.Show("Please Enter a number in the textbox")

End Try

End Sub

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

Me.Close()

End Sub

End Class

Public Class IndividualForm

Function Radiovalue(ByRef btnRadio As RadioButton) As Double

Dim dblPrice As Double

Select Case btnRadio.Text

Case "Model 100"

dblPrice = 29.95

Case "Model 110"

dblPrice = 49.95

Case "Model 200"

dblPrice = 99.95

Case "800 Minutes/Month"

dblPrice = 45.0

Case "1500 Minutes/Month"

dblPrice = 65.0

Case "Unlimited Minutes"

dblPrice = 99.0

End Select

Return dblPrice

End Function

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

If rdbtn100.Checked = True Then

lblPhoneSubtotal.Text = Radiovalue(rdbtn100).ToString("c")

lblTax.Text = (0.06 \* Radiovalue(rdbtn100)).ToString("c")

lblPhoneTotal.Text = (1.06 \* Radiovalue(rdbtn100)).ToString("c")

ElseIf rdbtn110.Checked = True Then

lblPhoneSubtotal.Text = Radiovalue(rdbtn110).ToString("c")

lblTax.Text = (0.06 \* Radiovalue(rdbtn110)).ToString("c")

lblPhoneTotal.Text = (1.06 \* Radiovalue(rdbtn110)).ToString("c")

ElseIf rdbtn200.Checked = True Then

lblPhoneSubtotal.Text = Radiovalue(rdbtn200).ToString("c")

lblTax.Text = (0.06 \* Radiovalue(rdbtn200)).ToString("c")

lblPhoneTotal.Text = (1.06 \* Radiovalue(rdbtn200)).ToString("c")

End If

If rdbtn800.Checked = True Then

lblPackageCharge.Text = Radiovalue(rdbtn800).ToString("c")

ElseIf rdbtn1500.Checked = True Then

lblPackageCharge.Text = Radiovalue(rdbtn1500).ToString("c")

ElseIf rdbtnUnlimited.Checked = True Then

lblPackageCharge.Text = Radiovalue(rdbtnUnlimited).ToString("c")

End If

If chboxEmail.Checked = True And chboxText.Checked = True Then

lblOptions.Text = "$35.00"

ElseIf chboxText.Checked = True Then

lblOptions.Text = "$10.00"

ElseIf chboxEmail.Checked = True Then

lblOptions.Text = "$25.00"

Else

lblOptions.Text = "$0.00"

End If

lblTotalMonthlyCharge.Text = (CDbl(lblOptions.Text) + CDbl(lblPackageCharge.Text)).ToString("c")

End Sub

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

Me.Close()

End Sub

End Class

Public Class Question3

'Declaring arrays and variable

Dim rndWord As New Random()

Dim strArticles() As String = {"the ", "another ", "one ", "this ", "some "}

Dim strNouns() As String = {"Martian ", "hamburger ", "skunk ", "mosquito ", "computer "}

Dim strAdjectives() As String = {"fast ", "colourful ", "huge ", "silly ", "bright "}

Dim strVerbs() As String = {"walked ", "jumped ", "ran ", "cooked ", "baked "}

Dim strPrepositions() As String = {"on ", "beneath ", "against ", "over ", "during "}

'Random sentence generate button

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

lstbox.Items.Add(UppercaseFirstLetter(strArticles(rndWord.Next(5))) +

strAdjectives(rndWord.Next(5)) +

strNouns(rndWord.Next(5)) +

strVerbs(rndWord.Next(5)) +

strPrepositions(rndWord.Next(5)) +

strArticles(rndWord.Next(5)) +

strAdjectives(rndWord.Next(5)) +

strNouns(rndWord.Next(5)).Trim() + ".")

End Sub

'clear button

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

lstbox.Items.Clear()

End Sub

'exit button

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

Me.Close()

End Sub

End Class

Module Functions

'Function to convert first character of a string to uppercase

Function UppercaseFirstLetter(ByVal val As String) As String

' Convert to character array.

Dim array() As Char = val.ToCharArray

' Uppercase first character.

array(0) = Char.ToUpper(array(0))

' Return new string.

Return New String(array)

End Function

'Function to add the total values of array

Function FindTotal(ByVal numEntered As ArrayList) As Integer

Dim sum As Integer

For Each item As String In Question2.strRainfall

sum += item

Next

Return sum

End Function

'Function to find maximum value in the array

Function FindMaximum(ByRef numEntered As ArrayList) As Integer

Dim maximum As Integer = 0

For Each item As String In Question2.strRainfall

If CInt(item) >= maximum Then

maximum = item

Else

maximum = maximum

End If

Next

Return maximum

End Function

'Function to find minimum value in the array

Function FindMinimum(ByRef numEntered As ArrayList) As Integer

Dim minimum As Integer = FindMaximum(Question2.strRainfall)

For Each item As String In Question2.strRainfall

If CInt(item) <= minimum Then

minimum = item

Else

minimum = minimum

End If

Next

Return minimum

End Function

'Function to find the month from number entered

Function ReturnMonth(ByVal numEntered As Integer) As String

Dim Month As String = ""

Select Case numEntered

Case 0

Month = " January"

Case 1

Month = " February"

Case 2

Month = " March"

Case 3

Month = " April"

Case 4

Month = " May"

Case 5

Month = " June"

Case 6

Month = " July"

Case 7

Month = " August"

Case 8

Month = " September"

Case 9

Month = " October"

Case 10

Month = " November"

Case 11

Month = " December"

End Select

Return Month

End Function

End Module

Public Class Question2

Public strRainfall As New ArrayList

'Add values to the array and listbox

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

If strRainfall.Count = 0 Then

lstboxStats.Items.Add("Monthly Rainfall Input")

lstboxStats.Items.Add("--------------------------------")

Dim strItem As String

For i = 0 To 11

strItem = InputBox("Enter rainfall for" + ReturnMonth(i))

While strItem = "" Or IsNumeric(strItem) = False

strItem = InputBox("Enter rainfall for" + ReturnMonth(i))

End While

strRainfall.Add(strItem)

lstboxStats.Items.Add("Rainfall for" + ReturnMonth(i) + " = " + strRainfall(i))

Next

Else

MessageBox.Show("Array is already set, please clear before re-entering")

End If

End Sub

'calculate total, average, max, min values and display

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

lblTotal.Text = "The total annual rainfall was " + FindTotal(strRainfall).ToString

lblMaximum.Text = "The maximum monthly rainfall was " + FindMaximum(strRainfall).ToString

lblMinimum.Text = "The minimum monthly rainfall was " + FindMinimum(strRainfall).ToString

lblAverage.Text = "The average monthly rainfall was " + Math.Round(FindTotal(strRainfall) / strRainfall.ToArray.Length, 2).ToString

End Sub

'clear button

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

lstboxStats.Items.Clear()

strRainfall.Clear()

lblAverage.Text = ""

lblMaximum.Text = ""

lblMinimum.Text = ""

lblTotal.Text = ""

End Sub

'exit button

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

Me.Close()

End Sub

End Class