```
'Project:       Program 2
'Programmer:    Eric Adkins
'Date:          4/11/13
'Description:   Acts as a basic calculator with defined operations of (/,*,+,-).

Option Strict On

Public Class EadkinsP2

    'Declares the variables value1 & value2 & valuetotal as decimals
    Dim value1Decimal As Decimal = 0D
    Dim value2Decimal As Decimal = -1D
    Dim valuetotalDecimal As Decimal = 0D
    Dim cntInteger As Integer = 0I

    Private Sub ButtonExit_Click(sender As System.Object, e As System.EventArgs) Handles
exitButton.Click
        'This button closes the Form
        Me.Close()
    End Sub

    Private Sub ButtonReset_Click(sender As System.Object, e As System.EventArgs) Handles
resetButton.Click
        'This button clears the Form of all entries
        inputOneTextBox.Text = ""
        inputTwoTextBox.Text = ""
        messageLabel.Text = ""

    End Sub

    Private Sub ButtonAddition_Click(sender As System.Object, e As System.EventArgs)
Handles additionButton.Click
        'This button takes value 1 and adds it to value 2
        messageLabel.Text = ""
        value1Decimal = Decimal.Parse(inputOneTextBox.Text)
        value2Decimal = Decimal.Parse(inputTwoTextBox.Text)
        valuetotalDecimal = value1Decimal + value2Decimal

        messageLabel.Text = "The answer is " & valuetotalDecimal.ToString()

    End Sub

    Private Sub ButtonSubtraction_Click(sender As System.Object, e As System.EventArgs)
Handles subtractionButton.Click
        'This button subtracts value 1 from value 2
        messageLabel.Text = ""
        value1Decimal = Decimal.Parse(inputOneTextBox.Text)
        value2Decimal = Decimal.Parse(inputTwoTextBox.Text)
        valuetotalDecimal = value1Decimal - value2Decimal

        messageLabel.Text = "The answer is " & valuetotalDecimal.ToString()

    End Sub

    Private Sub ButtonMult_Click(sender As System.Object, e As System.EventArgs) Handles
multiplicationButton.Click
        'This button multiplies value 1 by value 2
        messageLabel.Text = ""
```

```
        value1Decimal = Decimal.Parse(inputOneTextBox.Text)
        value2Decimal = Decimal.Parse(inputTwoTextBox.Text)
        valuetotalDecimal = value1Decimal * value2Decimal

        messageLabel.Text = "The answer is " & valuetotalDecimal.ToString()

    End Sub

    Private Sub ButtonDivision_Click(sender As System.Object, e As System.EventArgs)
Handles divisionButton.Click
        'This button divides value 1 by value 2
        messageLabel.Text = ""
        value2Decimal = Decimal.Parse(inputTwoTextBox.Text)

        If value2Decimal = 0 Then
            While cntInteger <= 5
                MsgBox("Well, this is awkward", MsgBoxStyle.Critical)
                cntInteger = cntInteger + 1
            End While
        Else
            value1Decimal = Decimal.Parse(inputOneTextBox.Text)
            value2Decimal = Decimal.Parse(inputTwoTextBox.Text)
            valuetotalDecimal = value1Decimal / value2Decimal

            messageLabel.Text = "The answer is " & valuetotalDecimal.ToString()

        End If

    End Sub

    Private Sub inputTwoTextBox_TextChanged(sender As System.Object, e As
System.EventArgs) Handles inputTwoTextBox.TextChanged

    End Sub
End Class
```

```
Public Class Bouncy_Ball
    Dim moveRightBoolean As Boolean
    Dim moveUpBoolean As Boolean

    Private Sub Timer1_Tick(sender As System.Object, e As System.EventArgs) Handles
Timer1.Tick
        If moveRightBoolean = True Then
            OvalShape1.Left += 10
        Else
            OvalShape1.Left -= 10
        End If

        If moveUpBoolean = True Then
            OvalShape1.Top -= 10
        Else
            OvalShape1.Top += 10
        End If

        If OvalShape1.Left < Me.ClientRectangle.Left Then
            moveRightBoolean = True
        End If

        If OvalShape1.Left + OvalShape1.Width >= Me.ClientRectangle.Right Then
            moveRightBoolean = False
        End If

        If OvalShape1.Top <= Me.ClientRectangle.Top Then
            moveUpBoolean = False
        End If

        If OvalShape1.Top >= Me.ClientRectangle.Bottom Then
            moveUpBoolean = True
        End If
    End Sub

    Private Sub OvalShape1_Click(sender As System.Object, e As System.EventArgs) Handles
OvalShape1.Click

    End Sub
End Class
```

```
'Project:       Project 1 (Fav 5)
'Programmer:    Eric Adkins
'Date:          4/9/13
'Description:   This project will display my favorite five (Movies,Tv shows, Role Model,
Course, Color)

Public Class EadkinsP1

    Private Sub ButtonMovie_Click(sender As System.Object, e As System.EventArgs) Handles
ButtonMovie.Click

        'Reassigns text property of the message label to the title of my favorite movie
        LabelMessage.Text = "Karate Kid"
        LabelMessage.ForeColor = Color.Red
    End Sub

    Private Sub ButtonExit_Click(sender As System.Object, e As System.EventArgs) Handles
ButtonExit.Click

        'This button closes the Form
        Me.Close()
    End Sub

    Private Sub ButtonRoleModel_Click(sender As System.Object, e As System.EventArgs)
Handles ButtonRoleModel.Click

        'Reassigns text property of the message label to the title of my favorite
RoleModel
        LabelMessage.Text = "Albert Einstein"
        LabelMessage.ForeColor = Color.DarkOliveGreen
    End Sub

    Private Sub ButtonColor_Click(sender As System.Object, e As System.EventArgs) Handles
ButtonColor.Click

        'Reassigns text property of the message label to the title of my favorite Color
        LabelMessage.Text = "Green"
        LabelMessage.ForeColor = Color.Green
    End Sub

    Private Sub ButtonCSUcourse_Click(sender As System.Object, e As System.EventArgs)
Handles ButtonCSUcourse.Click

        'Reassigns text property of the message label to the title of my favorite CSU
Course
        LabelMessage.Text = "Phil 103"
        LabelMessage.ForeColor = Color.DarkOrchid
    End Sub

    Private Sub ButtonTvshow_Click(sender As System.Object, e As System.EventArgs)
Handles ButtonTvshow.Click

        'Reassigns text property of the message label to the title of my favorite Tv Show
        LabelMessage.Text = "Friends"
        LabelMessage.ForeColor = Color.Black
    End Sub
```

```
    Private Sub EadkinsP1_Load(sender As System.Object, e As System.EventArgs) Handles
MyBase.Load

    End Sub
End Class
```

```
'Project:      Project 4
'Programmer:   Eric Adkins
'Date:         4/24/13
'Discription:  This form will request test scores and display various feedback pertaining
to the given inputted test scores
Option Strict On
Public Class TestAnalysisProgram
    Dim testAvgInteger As Integer = 0I
    Dim testIntrumInteger As Integer = 0I
    Dim highScoreInteger As Integer = 0I
    Dim lowScoreInteger As Integer = 0I
    Dim gradeDistInteger As Integer = 0I
    Dim enterScoreInteger As Integer = 0I
    Dim examCntInteger As Integer = 0I
    Dim aInteger As Integer = 0I
    Dim bInteger As Integer = 0I
    Dim cInteger As Integer = 0I
    Dim dInteger As Integer = 0I
    Dim fInteger As Integer = 0I

    Private Sub enterButton_Click(sender As System.Object, e As System.EventArgs) Handles
enterButton.Click

        Try
            'This checks to see if the entry in the enter Text box is a valid integer
            enterScoreInteger = Integer.Parse(enterScoreTextBox.Text)

            'This checks if the enter text box is between [0,100]
            If enterScoreInteger > 100I Or enterScoreInteger < 0I Then
                'Display message box to request user input value between 0 and 100
                MessageBox.Show("You must enter a value between 0 and 100", "Field entry
Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
            ElseIf enterScoreInteger = Integer.Parse(enterScoreTextBox.Text) Then
                'Uses the focus command to make the insertion point appear in the
enterScoreTextBox
                enterScoreTextBox.Focus()
            End If



            'Takes the first test entrance and sets it equal to low score box
            If examCntInteger = 0 Then
                lowScoreInteger = enterScoreInteger
                lowScoreTextBox.Text = lowScoreInteger.ToString()
                highScoreInteger = enterScoreInteger
                highScoreTextBox.Text = highScoreInteger.ToString()
            End If




            'Checks for high and low values given the entered score
            If enterScoreInteger > highScoreInteger Then
                highScoreInteger = enterScoreInteger
                highScoreTextBox.Text = highScoreInteger.ToString()
                enterScoreTextBox.Text = ""
```

```
            ElseIf enterScoreInteger < highScoreInteger And enterScoreInteger <=
lowScoreInteger Then
                lowScoreInteger = enterScoreInteger
                lowScoreTextBox.Text = lowScoreInteger.ToString()
                enterScoreTextBox.Text = ""
            End If



            'Keeps record of all the exams scores and averages them by dividing by the
number of exams entered
            If examCntInteger >= 0 Then
                examCntInteger = examCntInteger + 1
                testIntrumInteger = CInt((testIntrumInteger + enterScoreInteger))
                testAvgInteger = CInt(testIntrumInteger / examCntInteger)
                testAvgTextBox.Text = testAvgInteger.ToString()
                enterScoreTextBox.Text = ""
            End If



            'Keeps record of all the "A's" accumulated
            If enterScoreInteger >= 90I Then
                aInteger = aInteger + 1
                gradeLabel.Text = "A's " & aInteger.ToString() & "             B's " &
bInteger.ToString() & "             C's " & cInteger.ToString() & "             D's " &
dInteger.ToString() & "             F's " & fInteger.ToString() & "                    #
of Exams  " & examCntInteger.ToString()
                'Keeps record of all the "B's" accumulated
            ElseIf enterScoreInteger >= 80I And enterScoreInteger < 90I Then
                bInteger = bInteger + 1
                gradeLabel.Text = "A's " & aInteger.ToString() & "             B's " &
bInteger.ToString() & "             C's " & cInteger.ToString() & "             D's " &
dInteger.ToString() & "             F's " & fInteger.ToString() & "                    #
of Exams  " & examCntInteger.ToString()
                'Keeps record of all the "C's" accumulated
            ElseIf enterScoreInteger >= 70I And enterScoreInteger < 80I Then
                cInteger = cInteger + 1
                gradeLabel.Text = "A's " & aInteger.ToString() & "             B's " &
bInteger.ToString() & "             C's " & cInteger.ToString() & "             D's " &
dInteger.ToString() & "             F's " & fInteger.ToString() & "                    #
of Exams  " & examCntInteger.ToString()
                'Keeps record of all the "D's" accumulated
            ElseIf enterScoreInteger >= 60I And enterScoreInteger < 70I Then
                dInteger = dInteger + 1
                gradeLabel.Text = "A's " & aInteger.ToString() & "             B's " &
bInteger.ToString() & "             C's " & cInteger.ToString() & "             D's " &
dInteger.ToString() & "             F's " & fInteger.ToString() & "                    #
of Exams  " & examCntInteger.ToString()
                'Keeps record of all the "F's" accumulated
            ElseIf enterScoreInteger < 60 Then
                fInteger = fInteger + 1
                gradeLabel.Text = "A's " & aInteger.ToString() & "             B's " &
bInteger.ToString() & "             C's " & cInteger.ToString() & "             D's " &
dInteger.ToString() & "             F's " & fInteger.ToString() & "                    #
of Exams  " & examCntInteger.ToString()
            End If
```

```
        Catch
            'Statements executed when exception occurs
            MessageBox.Show("You must enter in an integer value doom aus!", "Field entry
Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
        End Try
    End Sub

    Private Sub exitButton_Click(sender As System.Object, e As System.EventArgs) Handles
exitButton.Click
        'This button closes the Form
        Me.Close()
    End Sub

    Private Sub resetButton_Click(sender As System.Object, e As System.EventArgs) Handles
resetButton.Click
        'Clears all the Text Boxes and the grade distrubution label
        enterScoreTextBox.Text = ""
        testAvgTextBox.Text = ""
        highScoreTextBox.Text = ""
        lowScoreTextBox.Text = ""
        gradeLabel.Text = ""
        testAvgInteger = 0I
        testIntrumInteger = 0I
        highScoreInteger = 0I
        lowScoreInteger = 0I
        gradeDistInteger = 0I
        enterScoreInteger = 0I
        examCntInteger = 0I
        aInteger = 0I
        bInteger = 0I
        cInteger = 0I
        dInteger = 0I
        fInteger = 0I
        'Uses the focus command to make the insertion point appear in the
enterScoreTextBox
        enterScoreTextBox.Focus()
    End Sub
End Class
```

```
'Project:      Project 3
'Programmer:   Eric Adkins
'Date:         4/21/13
'Discription:  This form will request user water usage (in gallons) and output a bill
total for said water usage.
Option Strict On

Public Class EadkinsP3
    'Declares the variables and constants in program
    Dim h2oUsageDecimal As Decimal = 0D
    Dim singleTotalDecimal As Decimal = 0D
    Dim duplexTotalDecimal As Decimal = 0D
    Dim diffDecimal As Decimal = 0D
    Const singleBaseDecimal As Decimal = CDec(14.99)
    Const duplexBaseDecimal As Decimal = CDec(17.61)


    Private Sub calculateButton_Click(sender As System.Object, e As System.EventArgs)
Handles calculateButton.Click
        Try
            'check to see if numerical value was entered into textbox if so, move on to
check radio buttons, etc...
            h2oUsageDecimal = Decimal.Parse(waterUsageTextBox.Text)

            'Check if radio buttons are both false, which means they did not select a
radio button so prompt them to do so with message box
            If singleRadioButton.Checked = False And duplexRadioButton.Checked = False
Then
                MessageBox.Show("You must select either 'single' or 'duplex'", "Household
Selection Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
            End If

            'Check if single is selected the run calculations for given parsed textbox
value, with appropriate tiers
            If singleRadioButton.Checked = True Then
                h2oUsageDecimal = Decimal.Parse(waterUsageTextBox.Text)

                'Tier 1 calc
                If h2oUsageDecimal <= 7000D Then
                    singleTotalDecimal = ((2.32D / 1000D) * h2oUsageDecimal) +
singleBaseDecimal
                    totalLabel.Text = "Your water bill this month is " &
singleTotalDecimal.ToString("C")

                ElseIf h2oUsageDecimal <= 13000 Then
                    diffDecimal = (h2oUsageDecimal - 7001D)
                    singleTotalDecimal = ((2.67D / 1000D) * diffDecimal) + ((2.32D /
1000D) * 7000D) + singleBaseDecimal
                    totalLabel.Text = "Your water bill this month is " &
singleTotalDecimal.ToString("C")

                Else
                    diffDecimal = (h2oUsageDecimal - 13000D)
                    singleTotalDecimal = ((3.07D / 1000D) * diffDecimal) + ((2.32D /
1000D) * 7000D) + ((2.67D / 1000D) * (13000D - 7001D)) + singleBaseDecimal
                    totalLabel.Text = "Your water bill this month is " &
singleTotalDecimal.ToString("C")
```

```
                End If

                'Check if duplex is selected the run calculations for given parsed
textbox value, with appropriate tiers
            ElseIf duplexRadioButton.Checked = True Then

                h2oUsageDecimal = Decimal.Parse(waterUsageTextBox.Text)

                If h2oUsageDecimal <= 9000D Then
                    duplexTotalDecimal = ((2.24D / 1000D) * h2oUsageDecimal) +
duplexBaseDecimal
                    totalLabel.Text = "Your water bill this month is " &
duplexTotalDecimal.ToString("C")

                ElseIf h2oUsageDecimal <= 13000 Then
                    diffDecimal = (h2oUsageDecimal - 9001D)
                    duplexTotalDecimal = ((2.57D / 1000D) * diffDecimal) + ((2.24D /
1000D) * 9000D) + duplexBaseDecimal
                    totalLabel.Text = "Your water bill this month is " &
duplexTotalDecimal.ToString("C")

                Else
                    diffDecimal = (h2oUsageDecimal - 13000D)
                    duplexTotalDecimal = ((2.96D / 1000D) * diffDecimal) + ((2.57D /
1000D) * (13000D - 9001D)) + ((2.24D / 1000D) * 9000D) + duplexBaseDecimal
                    totalLabel.Text = "Your water bill this month is " &
duplexTotalDecimal.ToString("C")

                End If
            End If

        Catch
            'Statements executed when exception occurs
            MessageBox.Show("You must enter in a numerical value", "Field entry Error",
MessageBoxButtons.OK, MessageBoxIcon.Error)
        End Try

    End Sub

    Private Sub exitButton_Click(sender As System.Object, e As System.EventArgs) Handles
exitButton.Click
        'This button closes the Form
        Me.Close()
    End Sub

    Private Sub resetButton_Click(sender As System.Object, e As System.EventArgs) Handles
resetButton.Click
        'This button clears the Form of all entries
        waterUsageTextBox.Text = ""
        singleRadioButton.Checked = False
        duplexRadioButton.Checked = False
        totalLabel.Text = ""
        'And uses the focus command to make the insertion point appear in the
waterUsageTextBox
        waterUsageTextBox.Focus()
    End Sub
End Class
```