**CS/IS 3023 Assignment 4 14 points**

**Due: 2/21**

Email your finished answers and to me at [harringp@nsuok.edu](mailto:harringp@nsuok.edu)

You are welcome to copy and paste your .vb source code below or attach your .vb source code to the email.

**Chapter 4:**

1. Write a short *If-Then* statement of visual basic code.

If (Label1.Text = "click me") Then

Label1.Text = "Hello World!"

Button1.Text = "Self-Destruct"

End If

1. Write the relational operator for *not equal to*.

< > (less than, greater than)

1. Do tutorial 4-1 , p. 238. Note the *try…catch* with nested *if-then*.

Public Class Form1

Private Sub GroupBox1\_Enter(sender As Object, e As EventArgs) Handles GroupBox1.Enter

End Sub

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

Dim dblScore1 As Double

Dim dblScore2 As Double

Dim dblScore3 As Double

Dim dblAverage As Double

' Constants

Const NUM\_SCORES As Integer = 3

Const dblHIGH\_SCORE As Double = 95.0

Try

' Assign the TextBox scores to the variables.

dblScore1 = CDbl(TextBox1.Text)

dblScore2 = CDbl(TextBox2.Text)

dblScore3 = CDbl(TextBox3.Text)

' Calculate the average score.

dblAverage = (dblScore1 + dblScore2 + dblScore3) / NUM\_SCORES

' Display the average, rounded to 2 decimal places.

Label5.Text = dblAverage.ToString("n2")

' If the score is high, compliment the student.

If dblAverage > dblHIGH\_SCORE Then

Label6.Text = "Congratulations! Great Job!"

End If

Catch

' Display an error message.

Label6.Text = "Scores must be numeric."

End Try

End Sub

Private Sub Button2\_Click(sender As Object, e As EventArgs) Handles Button2.Click

TextBox1.Text = ""

TextBox2.Text = ""

TextBox3.Text = ""

Label5.Text = ""

Label6.Text = ""

End Sub

Private Sub Button3\_Click(sender As Object, e As EventArgs) Handles Button3.Click

Me.Close()

End Sub

End Class

1. Write a short *If-Then-Else* statement of visual basic code.

If (Label2.Text = "check count") Then

Label2.Text = "Test!"

Else

Label2.Text = Label2.Text + " Test!"

End If

1. Do tutorial 4-2, p. 242. Note the *if-then-else*.

If dblAverage > dblHIGH\_SCORE Then

Label6.Text = "Congratulations! Great Job!"

Else

Label6.Text = "Keep trying!"

End If

1. Do tutorial 4-3 p. 245. Note the *if-then-else if – else*.

If dblAverage < 60 Then

Label8.Text = "F"

ElseIf dblAverage < 70 Then

Label8.Text = "D"

ElseIf dblAverage < 80 Then

Label8.Text = "C"

ElseIf dblAverage < 90 Then

Label8.Text = "B"

ElseIf dblAverage <= 100 Then

Label8.Text = "A"

End If

1. Write a short line of visual basic code to make a string uppercase.

Dim value As String = "ABC123"

value = value.Upper()

1. Write a short line of visual basic code to trim blank spaces from the end of a string.

Dim value As String = " This is an example string. "

value = value.Trim()

1. Write visual basic code to display days of the week using *select-case* statements.

Select Case dblTemperature

Case Is <= 75

blnTooCold = True

Case Is >= 100

blnTooHot = True

Case Else

blnJustRight = True

End Select