'Corn Maze Average time

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'Exam 2

'Purpose: Enter times for all teammates, up to 10, and display average time for team.

Option Strict On

Public Class Form1

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

'This click event clears t he listbox object and hides the average time label, it also enables the weight loss button

lstTimes.Items.Clear()

lblAverageTime.Visible = False

btnTimes.Enabled = True

End Sub

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

'The mnuExit click event closes the window and exits the application

Close()

End Sub

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

'Accepts up to 10 time values

'and then calculates and ddisplays the average time for the team

'Decleare and initialize variables

Dim strTime As String

Dim decTime As Decimal

Dim decAverageTime As Decimal

Dim decTotalTime As Decimal = 0D

Dim strInputMessage As String = "Enter the weight loss for team member #"

Dim strInputHeading As String = "Time"

Dim strNormalMessage As String = "Enter the time for team member #"

Dim strNonNumericError As String = "Error - enter a number for the weight loss of team member #"

Dim strNegativeError As String = "Error - Enter a positive number for the time of team member #"

'dECLARE AND INITIALIZE LOOP VARIABLES

Dim strCancelClicked As String = ""

Dim intMaxNumberOfEntries As Integer = 10

Dim intNumberOfEntries As Integer = 1

'This loop allows the user to enter the weight loss of up to 10 team members.

'The loop terminates when the user has entered 10 time values or the user

'taps or clicks the cancel button or the close button in the inputbox

strTime = InputBox(strInputMessage & intNumberOfEntries, strInputHeading, " ")

Do Until intNumberOfEntries > intMaxNumberOfEntries Or strTime = strCancelClicked

If IsNumeric(strTime) Then

decTime = Convert.ToDecimal(strTime)

If decTime > 0 Then

lstTimes.Items.Add(decTime)

decTotalTime += decTime

intNumberOfEntries += 1

strInputMessage = strNormalMessage

Else

strInputMessage = strNegativeError

End If

Else

strInputMessage = strNonNumericError

End If

If intNumberOfEntries <= intMaxNumberOfEntries Then

strTime = InputBox(strInputMessage & intNumberOfEntries, strInputHeading, " ")

End If

Loop

'Calculates and displays average team time

If intNumberOfEntries > 1 Then

lblAverageTime.Visible = True

decAverageTime = decTotalTime / (intNumberOfEntries - 1)

lblAverageTime.Text = "Average time for the team is " &

decAverageTime.ToString("F1") & " minutes"

Else

MsgBox("No time value entered")

End If

'disables the time value button

btnTimes.Enabled = False

End Sub

End Class

Order of pictures:

1. Results with < 10 values

2. Negative number input error result

3. Letter input error result

4. Pressing cancel on input box before entering any time value result

5. Form on startup

6. Result of 10 value inputs

