Public Class Form1

Const ARRAY\_SIZE = 10 ' This is just a constant so it keeps us safer from trying to access and index out of bounds or try adding another element when we only want 10

Dim numbers(ARRAY\_SIZE - 1) As Integer

Dim numberString As String = ""

Dim valid As Boolean = True

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

listInputValues.Items.Add("List Input Values")

LoopInputData()

For x = 0 To (ARRAY\_SIZE - 1)

listInputValues.Items.Add(CStr(numbers(x)))

Next

End Sub

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

lblSmallest.Text = ("The smallest number is " & CStr(smallestNumber()))

lblSmallest.Visible = True

lblLargest.Text = ("The largest number is " & CStr(largestNumber()))

lblLargest.Visible = True

End Sub

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

listInputValues.Items.Clear()

lblLargest.Text = ""

lblSmallest.Text = ""

End Sub

Sub LoopInputData()

For x = 0 To (ARRAY\_SIZE - 1)

Do

valid = True

numberString = InputBox("Enter an integer value")

If IsNumeric(numberString) Then

numbers(x) = CInt(numberString)

valid = True

Else

MessageBox.Show("You did not enter a numeric value. Please try again.")

valid = False

End If

Loop Until valid = True

Next

End Sub

Function largestNumber() As Integer

Dim largest As Integer = numbers(0)

For x = 1 To (ARRAY\_SIZE - 1)

If (numbers(x) > largest) Then

largest = numbers(x)

End If

Next

Return largest

End Function

Function smallestNumber() As Integer

Dim smallest As Integer = numbers(0)

For x = 1 To (ARRAY\_SIZE - 1)

If (numbers(x) < smallest) Then

smallest = numbers(x)

End If

Next

Return smallest

End Function

End Class





