

Imports System.IO.Ports

Public Class Form1

Dim comPORT As String

Dim receivedData As String = ""

Private Sub Form1\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Timer1.Enabled = False comPORT = ""

For Each sp As String In My.Computer.Ports.SerialPortNames

ComboBox.Items.Add(sp) Next

End Sub

Private Sub comPort\_ComboBox\_SelectedIndexChanged(sender As Object, e As

EventArgs) Handles ComboBox.SelectedIndexChanged

If (ComboBox.SelectedItem <> "") Then comPORT = ComboBox.SelectedItem

End If

End Sub

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

Button1.Click

If (Button1.Text = "Connect") Then

If (comPORT <> "") Then SerialPort1.Close() SerialPort1.PortName = comPORT SerialPort1.BaudRate = 9600

SerialPort1.DataBits = 8

SerialPort1.Parity = Parity.None SerialPort1.StopBits = StopBits.One SerialPort1.Handshake = Handshake.None SerialPort1.Encoding = System.Text.Encoding.Default SerialPort1.ReadTimeout = 10000

SerialPort1.Open() Button1.Text = "Dis-connect" Timer1.Enabled = True Label2.Text = "Timer: ON"

Else

MsgBox("Select a COM port first") End If

Else

SerialPort1.Close() Button1.Text = "Connect" Timer1.Enabled = False Label2.Text = "Timer: OFF"

End If

End Sub

Private Sub Timer1\_Tick(sender As Object, e As EventArgs) Handles Timer1.Tick receivedData = ReceiveSerialData()

RichTextBox1.Text &= receivedData

End Sub

Function ReceiveSerialData() As String

Dim Incoming As String

Try

Incoming = SerialPort1.ReadExisting()

If Incoming Is Nothing Then

Return "nothing" & vbCrLf

Else

Return Incoming

End If

Catch ex As TimeoutException

Return "Error: Serial Port read timed out." End Try

End Function

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

Button2.Click

RichTextBox1.Text = "" End Sub

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

Button3.Click

If TextBox1.Text.Length <> 0 Then

SerialPort1.Write(TextBox1.Text) End If

End Sub

Private Sub Button4\_Click(sender As Object, e As EventArgs) Handles

Button4.Click SerialPort1.Close() Application.Exit()

End Sub

End Class

