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Imports System
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()
        End Try
    End Function
End Class
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    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

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