Payroll Application [Element 2]

Brief Description

In the second version of the program I've added data validation using the "if" command, ensuring the data entered is always a numeric value. I have also declared the taxes pay as a single rather than an integer.

Then I started a conditional to calculate if the overtime hours were less than 8. After that I did another block of code to produce the overtime hours.

I also took the freedom of adding an 'exit' button to close the application. I find out the code for this button by reading a book called "Visual Basic for Dummies" that I recently bought.

Programming listing of Payroll Application [Element 2]

```vb
Public Class frmMain

    Private Sub btnNetPay_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnNetPay.Click
        Dim sngRatePay, sngOverTimeRate, sngTaxesPay As Single
        Dim intNoHours, intNetPay, intGrossPay, intOverTimeHours, intOverTimePay,
intBasicPay As Integer

        If IsNumeric(txtRateOfPay.Text) = False Then
            MsgBox("Please input only numbers in the Rate of Pay field")
        ElseIf IsNumeric(txtNoHours.Text) = False Then
            MsgBox("Please input only numbers in the Working Hours
field")

        Else

            sngRatePay = CSng(txtRateOfPay.Text)

            intNoHours = CInt(txtNoHours.Text)
            If intNoHours <= 8 Then
                intOverTimeHours = 0
            Else
                intOverTimeHours = intNoHours - 8
            End If

            'Start calculating Overtime
            sngOverTimeRate = sngRatePay * 1.5
            intOverTimePay = sngOverTimeRate * intOverTimeHours

            'Start calculating Net Pay
            intGrossPay = intNoHours * sngRatePay
            sngTaxesPay = intGrossPay * 0.4
            intNetPay = intGrossPay - sngTaxesPay

            'Start calculating the Basic Pay
            intBasicPay = intNetPay + intOverTimePay


            'Display net pay calculation
            txtGrossPay.Text = CStr(intGrossPay)
            txtNetPay.Text = CStr(intNetPay)
            txtTaxesPay.Text = CStr(sngTaxesPay)

            'Display overtime calculation
            txtOverTimeRate.Text = CStr(sngOverTimeRate)
            txtOverTimeHours.Text = CStr(intOverTimeHours)
            txtOverTimePay.Text = CStr(intOverTimePay)
            txtTotalPay.Text = CStr(intBasicPay)

        End If

    End Sub

    Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnExit.Click
        Dim msg As String
        Dim style As MsgBoxStyle
        Dim response As MsgBoxResult
        msg = "Do you want to to EXIT the Application?"
        style = MsgBoxStyle.YesNo
        response = MsgBox(msg, style)
        If response = MsgBoxResult.Yes Then
            Me.Close() 'Close the program if YES
        Else
            'Do nothing if NO
        End If
        '
    End Sub
End Class
```