Public Class frmCalculations
    Inherits System.Windows.Forms.Form

    Windows Form Designer generated code

    Private Sub btnPower_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
        Dim wkNum As Integer = 5
        txtPower2.Text = wkNum ^ 2
        txtPower3.text = wkNum ^ 3
    End Sub

    Private Sub btnDivide_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
        Dim wkTDivide As Decimal
        wkTDivide = 234.56
        txtDivide.Text = wkTDivide / 2
    End Sub

    Private Sub btnIntegerDivide_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
        Dim wkIntDivide As Decimal
        wkIntDivide = 234.56
        txtIntegerDivide.Text = wkIntDivide \ 2
    End Sub

    Private Sub btnMod_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnMod.Click
        Dim wkMod As Integer, wkMod1 As Decimal
        wkMod = 20
        txtMod.Text = wkMod Mod 7
        wkMod1 = 20.45
        txtMod1.Text = wkMod1 Mod 7
    End Sub
Test these programs, I did not take pictures of everything we tried. We finished up the examples in the beginning group.
We are starting to look at the next group of programs that deal with if statements.
Public Class frmInven
    Inherits System.Windows.Forms.Form

    Windows Form Designer generated code

    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
        txtItemNo.Clear()
        txtItemName.Clear()
        txtQty.Clear()
        txtOnHand.Clear()
        txtOnOrder.Clear()
    End Sub

    Private Sub btnInd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnInd.Click
        End
    End Sub

    Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCalc.Click
        If txtOnHand.Text < 20 Then
            txtMsg.Text = "Need to Order"
        End If
    End Sub
End Class
Public Class frmInven1
    Inherits System.Windows.Forms.Form

    Windows Form Designer generated code

    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
        txtItemNo.Clear()
        txtItemName.Clear()
        txtQty.Clear()
        txtOnHand.Clear()
        txtOnOrder.Clear()
    End Sub

    Private Sub btnEnd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    End Sub

    Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
        If txtOnHand.Text < 20 Then
            txtMsg.Text = "Need to Order"
        Else
            txtMsg.Text = "Nothing needed"
        End If
    End Sub

End Class
Public Class frmInvent
    Inherits System.Windows.Forms.Form

    Windows Form Designer generated code

    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
        txtItemNo.Clear()
        txtItemName.Clear()
        txtMsg.Clear()
        txtOnHand.Clear()
        txtOnOrder.Clear()
    End Sub

    Private Sub btnEnd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnEnd.Click
        End
    End Sub

    Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCalc.Click
        If txtOnHand.Text < 20 Then
            txtMsg.Text = "Need to Order"
        Else
            txtMsg.Text = "Nothing needed"
        End If
    End Sub
End Class
I am going to add a second if.
Public Class frmInvent
  Inherits System.Windows.Forms.Form

  Windows Form Designer generated code

  Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    txtItemNo.Clear()
    txtItemName.Clear()
    txtItemPrice.Clear()
    txtOnHand.Clear()
    txtOnOrder.Clear()
    End Sub

  Private Sub btnEnd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    End Sub

  Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    If txtOnHand.Text < 20 Then
      If txtOnOrder.Text < 50 Then
        txtMsg.Text = "Need to Order"
      Else
        txtMsg.Text = "On Order OK"
      End If
    Else
      txtMsg.Text = "Out of Stock"
    End If
    End If
  End Sub
End Class
```vbnet
Public Class frmInvent
    Inherits System.Windows.Forms.Form

    Windows Form Designer generated code

    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
        txtItemNo.Clear()
        txtItemName.Clear()
        txtMsg.Clear()
        txtOnHand.Clear()
        txtOnOrder.Clear()
    End Sub

    Private Sub btnEnd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnEnd.Click
        End
    End Sub

    Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCalc.Click
        Dim tOnOrder As Integer = Integer.Parse(txtOnOrder.Text)
        Dim tMax As Integer = Integer.Parse(txtMax.Text)

        Dim tNeeded As Integer = tMax - tOnHand
        Dim tIf As Integer = 50
        Dim tElse As Integer = 20

        If tOnHand < tIf Then
            If tOnOrder < tIf Then
                txtMsg.Text = "Need to Order"
            Else
                txtMsg.Text = "On Order OK"
            End If
        Else
            txtMsg.Text = "On Hand OK"
        End If
    End Sub
End Class
```
Public Class frmInvent
    Inherits System.Windows.Forms.Form

    Windows Form Designer generated code

    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
        txtItemNo.Clear()
        txtItemName.Clear()
        txtMsg.Clear()
        txtOnHand.Clear()
        txtOnOrder.Clear()
    End Sub

    Private Sub btnEnd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnEnd.Click
    End Sub

    Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCalc.Click
        If txtOnHand.Text < 20 Then
            If txtOnOrder.Text < 50 Then
                txtMsg.Text = "Need To Order"
            Else
                txtMsg.Text = "On Order OK"
            End If
        Else
            txtMsg.Text = "On Hand OK"
        End If
    End Sub
End Class
Public Class frmInvent
    Inherits System.Windows.Forms.Form
    Windows Form Designer generated code
    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
        txtItemNo.Clear()
        txtItemName.Clear()
        txtMsg.Clear()
        txtOnHand.Clear()
        txtOnOrder.Clear()
    End Sub
    Private Sub btnEnd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnEnd.Click
        End Sub
    Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCalc.Click
        If txtOnHand.Text < 20 Then
            If txtOnOrder.Text < 50 Then
                txtMsg.Text = "Need to Order"
            Else
                txtMsg.Text = "On Order OK"
            End If
        Else
            txtMsg.Text = "On Hand OK"
        End If
    End Sub
End Class
With different messages, you need separate if statements. If I make both no messages the same I can use a compound with an AND.
Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
    txtItemNo.Clear()
    txtItemName.Clear()
    txtMsg.Clear()
    txtOnHand.Clear()
    txtOnOrder.Clear()
End Sub

Private Sub btnEnd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnEnd.Click
End
End Sub

Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCalc.Click
    If txtOnHand.Text < 20 And txtOnOrder.Text < 50 Then
        txtMsg.Text = "Need To Order"
    Else
        txtMsg.Text = "OK"
    End If
End Sub
Public Class frmInvent
    Inherits System.Windows.Forms.Form

    Windows Form Designer generated code

    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
        txtItemNo.Clear()
        txtItemName.Clear()
        txtQty.Clear()
        txtOnHand.Clear()
        txtOnOrder.Clear()
    End Sub

    Private Sub btnEnd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnEnd.Click
        End
    End Sub

    Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCalc.Click
        If txtOnHand.Text < 20 And txtOnOrder.Text < 50 Then
            txtMsg.Text = "Need to Order"
        Else
            txtMsg.Text = "OK"
        End If
    End Sub
End Class
Public Class frmInven1
    Inherits System.Windows.Forms.Form

    Windows Form Designer generated code

    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
        txtItemNo.Clear()
        txtItemName.Clear()
        txtCode.Clear()
        txtOnHand.Clear()
        txtOnOrder.Clear()
    End Sub

    Private Sub btnEnd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
        True
    End Sub

    Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
        If txtOnHand.Text < 10 And txtOnOrder.Text < 50 Then
            txtMsg.Text = "Need to Order"
        Else
            txtMsg.Text = "OK"
        End If
    End Sub
End Class