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Public Class NewCalculator
    Dim aLeft As String, aRight As String, aOperator As String
    Dim iLeft As Double, iRight As Double, iResult As Double
    Dim bLeft As Boolean

    Private Sub NewCalculator_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
        bLeft = True
    End Sub

    Private Sub AddNumber(ByVal sNumber As String)
        If bLeft Then
            aLeft = aLeft + sNumber
            tbResult.Text = aLeft
        Else
            aRight = aRight + sNumber
            tbResult.Text = aRight
        End If
    End Sub

    Private Sub AddOperator(ByVal sNewOperator As String)
        If bLeft Then
            aOperator = sNewOperator
            bLeft = False
        Else
            aOperator = sNewOperator
            aRight = ""
            bLeft = False
        End If
    End Sub

    Private Sub btnZero_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnZero.Click
        AddNumber("0")
    End Sub

    Private Sub btnOne_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnOne.Click
        AddNumber("1")
    End Sub

    Private Sub btnTwo_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnTwo.Click
        AddNumber("2")
    End Sub

    Private Sub btnThree_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnThree.Click
        AddNumber("3")
    End Sub

    Private Sub btnFour_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnFour.Click
        AddNumber("4")
    End Sub

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Private Sub btnFive_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnFive.Click
    AddNumber("5")
End Sub

Private Sub btnSix_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnSix.Click
    AddNumber("6")
End Sub

Private Sub btnSeven_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnSeven.Click
    AddNumber("7")
End Sub

Private Sub btnEight_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnEight.Click
    AddNumber("8")
End Sub

Private Sub btnNine_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnNine.Click
    AddNumber("9")
End Sub

Private Sub btnPoint_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnPoint.Click
    AddNumber(".")
End Sub

Private Sub btnEquals_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnEquals.Click
    If aLeft <> "" And aRight = "" And aOperator <> "" Then
        aRight = aLeft
    End If

    If aLeft <> "" And aRight <> "" And aOperator <> "" Then
        iLeft = aLeft
        iRight = aRight

        Select Case aOperator
            Case "+"
                iResult = iLeft + iRight
            Case "-"
                iResult = iLeft - iRight
            Case "/"
                iResult = iLeft / iRight
            Case "*"
                iResult = iLeft * iRight
        End Select

        tbResult.Text = iResult

        aLeft = iResult
        aRight = ""
        bLeft = True
    End If
End Sub

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Private Sub btnPlus_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnPlus.Click
    AddOperator("+")
End Sub

Private Sub btnMinus_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnMinus.Click
    AddOperator("-")
End Sub

Private Sub btnMultiply_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnMultiply.Click
    AddOperator("*")
End Sub

Private Sub btnDivide_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnDivide.Click
    AddOperator("/")
End Sub

Private Sub btnSqrt_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnSqrt.Click
    If aLeft <> "" Then
        iLeft = aLeft
    Else
        iLeft = 0
    End If

    If aRight <> "" Then
        iRight = aRight
    Else
        iRight = 0
    End If

    If bLeft Then
        iLeft = Math.Sqrt(iLeft)
        tbResult.Text = iLeft
    Else
        iRight = Math.Sqrt(iLeft)
        tbResult.Text = iRight
    End If

    If iLeft <> 0 Then
        aLeft = iLeft
    Else
        aLeft = ""
    End If

    If iRight <> 0 Then
        aRight = iRight
    Else
        aRight = ""
    End If
End Sub

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Private Sub rtnPercentage_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles rtnPercentage.Click
    If Not bLeft Then
        If aRight <> "" Then
            iRight = aRight
        Else
            iRight = 0
        End If

        iRight = iRight * (iLeft / 100)
        tbResult.Text = iRight

        If iRight <> 0 Then
            aRight = iRight
        Else
            aRight = ""
        End If
    End If
End Sub

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Private Sub btnOnebyx_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnOnebyx.Click
    If aLeft <> "" Then
        iLeft = aLeft
    Else
        iLeft = 0
    End If

    If aRight <> "" Then
        iRight = aRight
    Else
        iRight = 0
    End If

    If bLeft Then
        iLeft = 1 / iLeft
        tbResult.Text = iLeft
    Else
        iRight = 1 / iRight
        tbResult.Text = iRight
    End If

    If iLeft <> 0 Then
        aLeft = iLeft
    Else
        aLeft = ""
    End If

    If iRight <> 0 Then
        aRight = iRight
    Else
        aRight = ""
    End If
End Sub

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Private Sub btnCancel_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnCancel.Click

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    aLeft = ""
    aRight = ""
    aOperator = ""
    tbResult.Text = "0"
    bLeft = True
End Sub

Private Sub btnCE_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnCE.Click
    If bLeft Then
        aLeft = ""
    Else
        aRight = ""
    End If
    tbResult.Text = "0"
End Sub

End Class
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