Option Explicit

Private Sub CmdClear_Click()
    txtText1.Text = ""
    txtText2.Text = ""
    txtText3.Text = ""
    txtText4.Text = ""
End Sub

Private Sub cmdGo_Click()
    Dim x As Single, sin_true As Single, sum As Single
    Dim n As Integer, i As Integer
    x = txtText1.Text
    n = txtText2.Text
    sin_true = Sin(x)
    sum = 0
    For i = 1 To n
        sum = sum + (-1)^(i - 1) * x^(2 * i - 1) / factorial(2*i-1)
    Next
    txtText3.Text = sum
    txtText4.Text = sin_true
End Sub

Private Function factorial(n As Integer) As Integer
    Dim i As Integer, x As Integer
    x = 1
    For i = 2 To n
        x = x * i
    Next
    factorial = x
End Function

Private Sub cmdQuit_Click()
    End
End Sub
Output:

Series approximation for \( \sin(x) \)

\[ x = \quad 1 \qquad n = \quad 4 \]

\[ \sin(x) = \]

\text{Series Approximation} \quad \boxed{0.8414682}

\text{Correct Value} \quad \boxed{0.841471}