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' Biggest Prime Number Finder

Public Class Form1

    ' Finds biggest prime number
    Private Sub btnClick_Click(sender As System.Object, e As System.EventArgs) Handles btnClick.Click
        Dim upperLimit As Integer = 0      ' finding the biggest prime number up to this number
        '                                     since the program cannot reach infinity
        Dim biggestPrime As Integer = 2    ' biggest prime number found up to the number upperLimit
        Dim isPrime As Boolean = True      ' current number is prime or not

        upperLimit = Val(txtNum.Text)

        For J = 2 To upperLimit

            isPrime = True                  ' assume that the current number J is prime

            For num = 2 To Math.Sqrt(J)    ' checking all numbers below the square root of J
                '                                     to see if they divide evenly into J
                If (J Mod num = 0) Then
                    isPrime = False
                    Exit For              ' reject current J as not prime if a smaller number
                '                                     num divided evenly into it
            End If

        Next

        If (isPrime = True) Then          ' identifies J as biggest prime number if no divisor was
            '                                     found by For loop
                biggestPrime = J
        End If

    Next

    lblBiggestPrime.Text = biggestPrime

End Sub

End Class
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