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Public Class Form1
    'Author : James DuBois
    Private random As New Random

    Private icons = New List(Of String) From {"a", "a", "B", "B", "C", "C", "d", "d",
    "E", "E", "f", "f"}

    Private Sub AssignIconsToSquares()
        For Each control In TableLayoutPanel1.Controls
            Dim iconLabel = TryCast(control, Label)
            If iconLabel IsNot Nothing Then
                Dim randomNumber = random.Next(Icons.Count)
                iconLabel.Text = icons(randomNumber)
                iconLabel.ForeColor = iconLabel.BackColor
                icons.RemoveAt(randomNumber)
            End If
        Next
    End Sub

    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        AssignIconsToSquares()
    End Sub

    Private Sub label_Click(sender As Object, e As EventArgs) Handles Label9.Click,
Label8.Click, Label7.Click, Label6.Click, Label5.Click, Label4.Click, Label3.Click,
Label2.Click, Label12.Click, Label11.Click, Label10.Click, Label1.Click
        If Timer1.Enabled Then Exit Sub

        Dim clickedLabel = TryCast(sender, Label)

        If clickedLabel IsNot Nothing Then

            If clickedLabel.ForeColor = Color.Black Then Exit Sub

            If firstClicked Is Nothing Then
                firstClicked = clickedLabel
                firstClicked.ForeColor = Color.Black
            Exit Sub
            End If

            secondClicked = clickedLabel
            secondClicked.ForeColor = Color.Black

            CheckForWinner()

            If firstClicked.Text = secondClicked.Text Then
                firstClicked = Nothing
                secondClicked = Nothing
            Exit Sub
            End If

            Timer1.Start()
        End If
    End Sub

    Private firstClicked As Label = Nothing

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        Private secondClicked As Label = Nothing

    Private Sub Timer1_Tick(sender As Object, e As EventArgs) Handles Timer1.Tick
        Timer1.Stop()

        firstClicked.ForeColor = firstClicked.BackColor
        secondClicked.ForeColor = secondClicked.BackColor

        firstClicked = Nothing
        secondClicked = Nothing
    End Sub

    Private Sub CheckForWinner()

    For Each control In TableLayoutPanel1.Controls
        Dim iconLabel = TryCast(control, Label)
        If iconLabel IsNot Nothing AndAlso
            iconLabel.ForeColor = iconLabel.BackColor Then Exit Sub
    Next

    MessageBox.Show("Congratulations! You matched all the Icons!")
    Close()

End Sub
End Class

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