Visual Programming - 20INMCA306
AND
Visual Programming Lab - 20INMCA334

Topic : Age Converter

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Problem Statement

The **Age Converter** module enables learners to develop an application that accurately computes a person's age based on their date of birth. By the end of this module, learners will be able to implement date manipulation techniques, validate different date formats, and handle leap years while ensuring accurate calculations. They will enhance problem-solving skills by applying logical operations to determine age in years, months, and days. Additionally, learners will gain experience in building a user-friendly interface for input and output, making the age calculator interactive and efficient for real-world applications.

Logic For Age Converter

The **Age Converter** works by taking the user's date of birth as input and determining the difference between the current date and the birth date to calculate age in years, months, and days. It first subtracts the birth year from the current year to get the initial age, then adjusts for months and days based on whether the current date has passed the birth date within the year. If the current month is earlier than the birth month, one year is subtracted, and if the current day is earlier, a month adjustment is made using the previous month's days. The logic also accounts for leap years when handling February. Finally, the calculated age is displayed in an easy-to-understand format.

Code Implementation

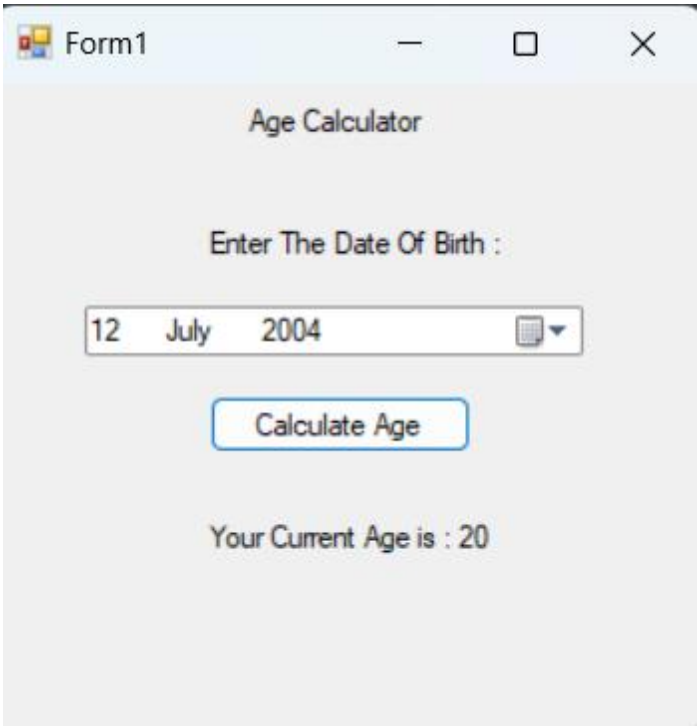
```
Public Class Form1
    Private Sub Label2_Click(sender As Object, e As EventArgs) Handles
Label2.Click

    End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles
Button1.Click
        Dim dob As DateTime = DateTimePicker1.Value
        Dim age As Integer = calcuage(dob)
        Label3.Text = "Your Current Age is : " & age
    End Sub

    Function calcuage(dob As DateTime) As Integer
        Dim datetoday As DateTime = DateTime.Now()
        Dim age As Integer = datetoday.Year - dob.Year
        If datetoday.Month < dob.Month Or datetoday.Day < dob.Day Then
            age = age - 1
        End If
        Return age
    End Function
End Class
```

Output



Result : : The question have been successfully executed and the output is verified