

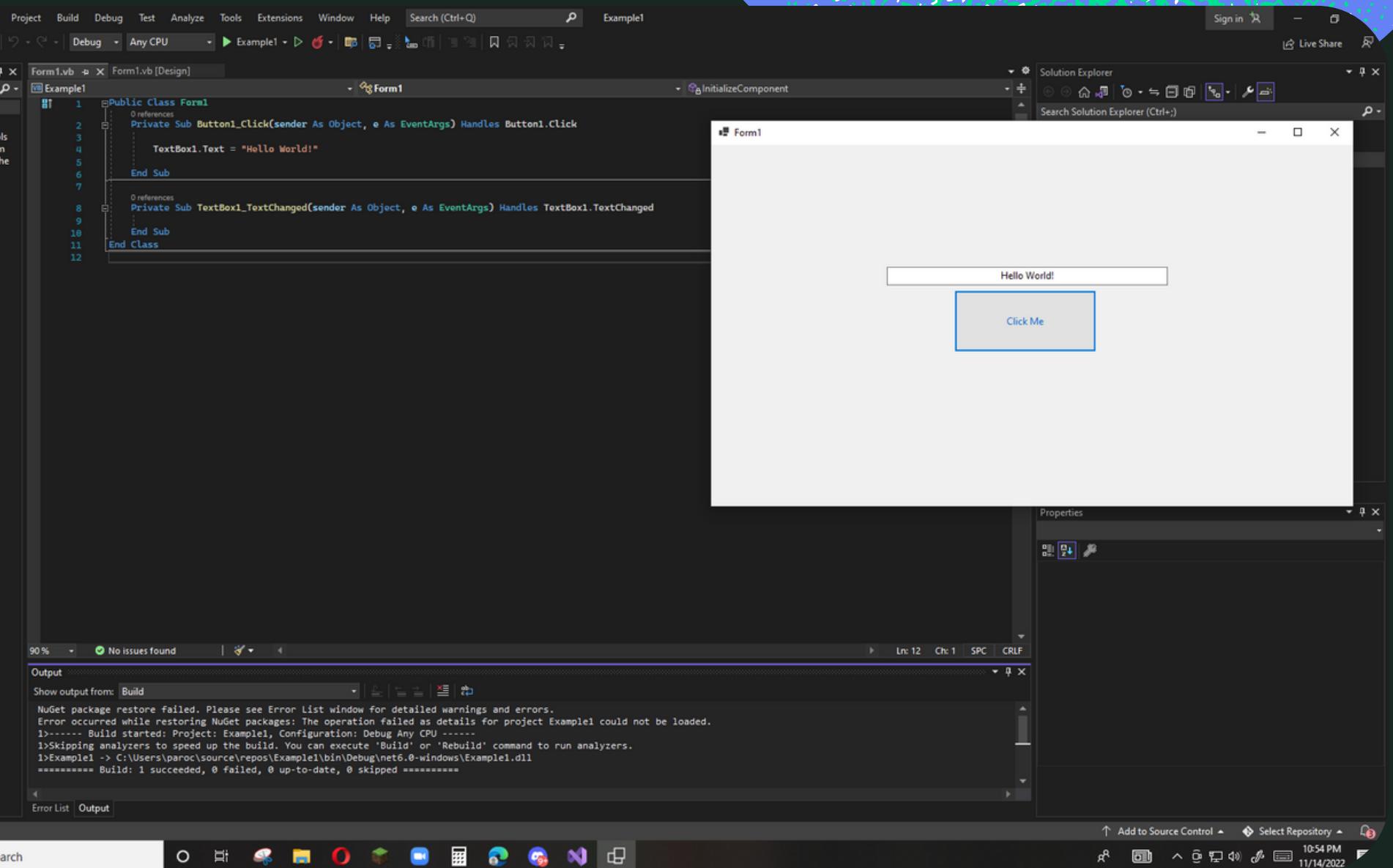
Computer Programming: Visual Basic 6.0

John Mathew C. Parocha

Example #1

Hello World!

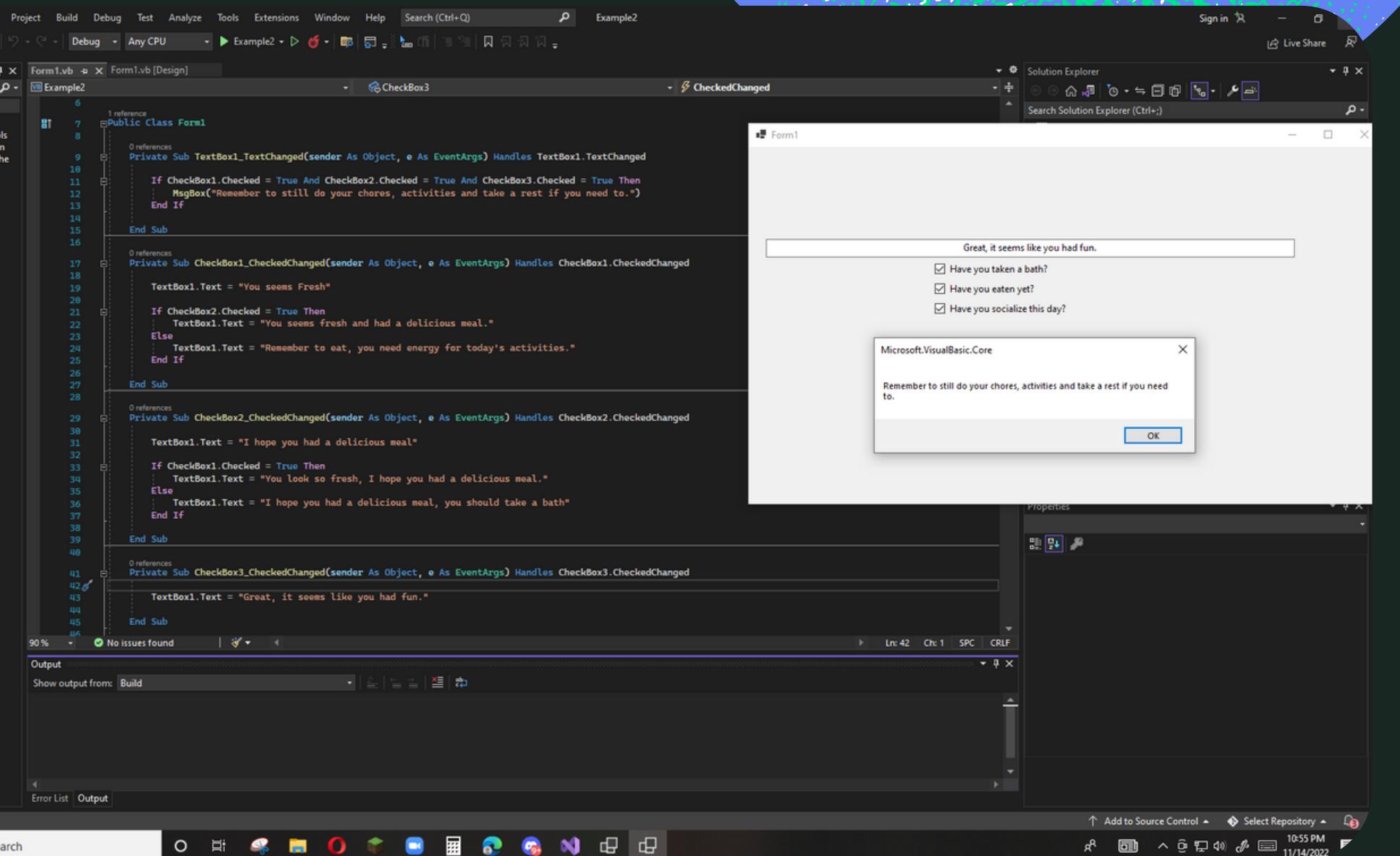
Design and develop an application system that when the user clicks the Click Me button, the message “Hello World!” will be displayed at the text box. Follow the given figure below in designing and developing the application system.



Example #2

Introduction to CheckBox

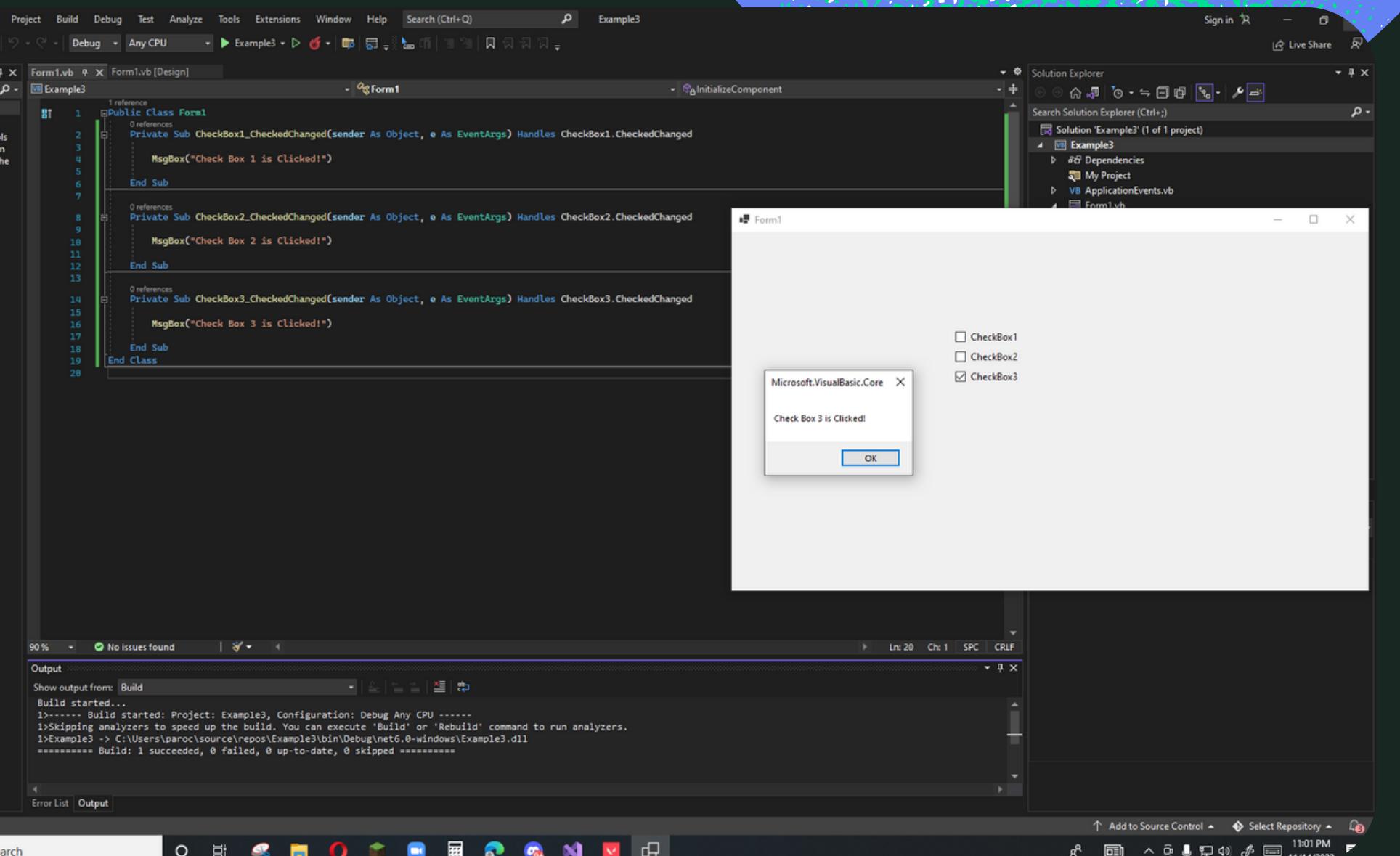
Design and develop a simple Check box and Text box application that when the user clicks one of the three check boxes, it will indicate in the text box on which check box the user had clicked. For example if Check box 2 was clicked by the user, it will display “Check box 2 is clicked!” at the text box. It will do the same with Check box 1 and Check box 3. Follow the given figure below in designing and developing the application system.



Example #3

Introduction to Message Box

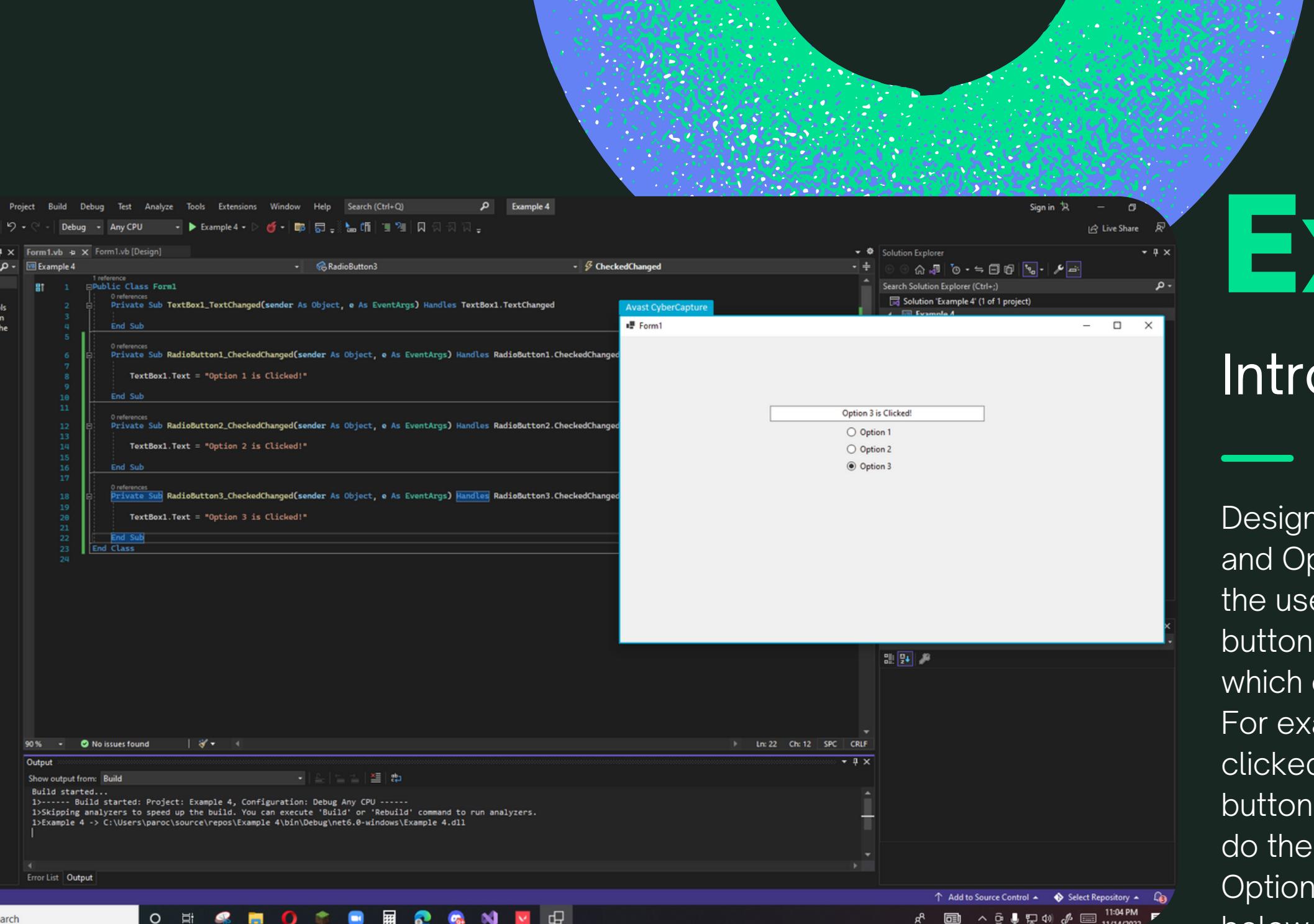
Design and develop a simple Check box and Message box application that when the user clicks one of the three check boxes, it will indicate in the Message box on which check box the user had clicked. For example if Check box 2 was clicked by the user, it will display “Check box 2 is clicked!” at the Message box. It will do the same with Check box 1 and Check box 3. Follow the given figure below in designing and developing the application system.



Example #4

Introduction to Option Button

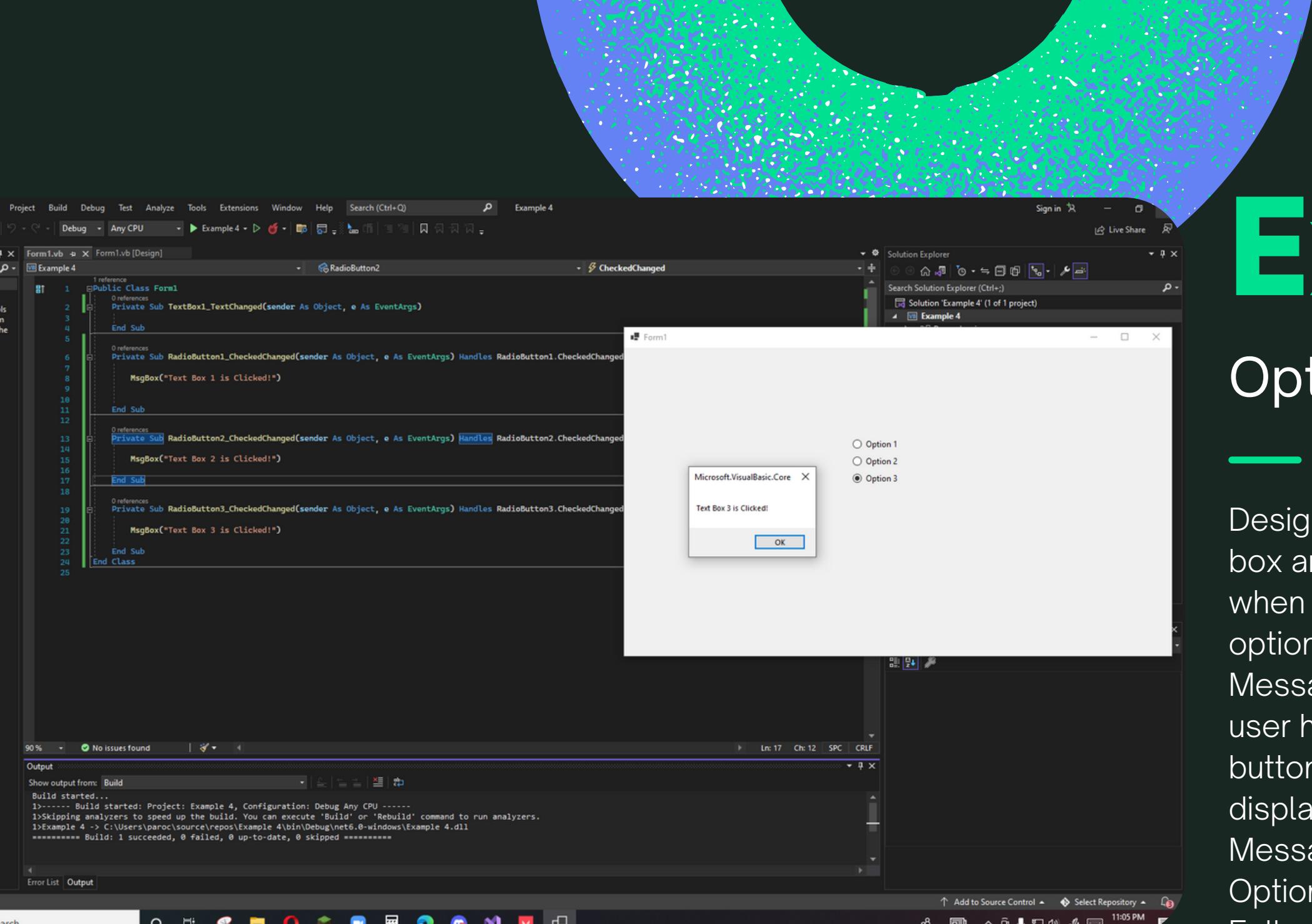
Design and develop a simple Text box and Option buttons application that when the user clicks one of the three option buttons, it will indicate in the Text box on which option button the user had clicked. For example if option button 2 was clicked by the user, it will display “Option button 2 is clicked!” at the Text box. It will do the same with Option button 1 and Option button 3. Follow the given figure below in designing and developing the application system.



Example #5

Option Button + Message Box

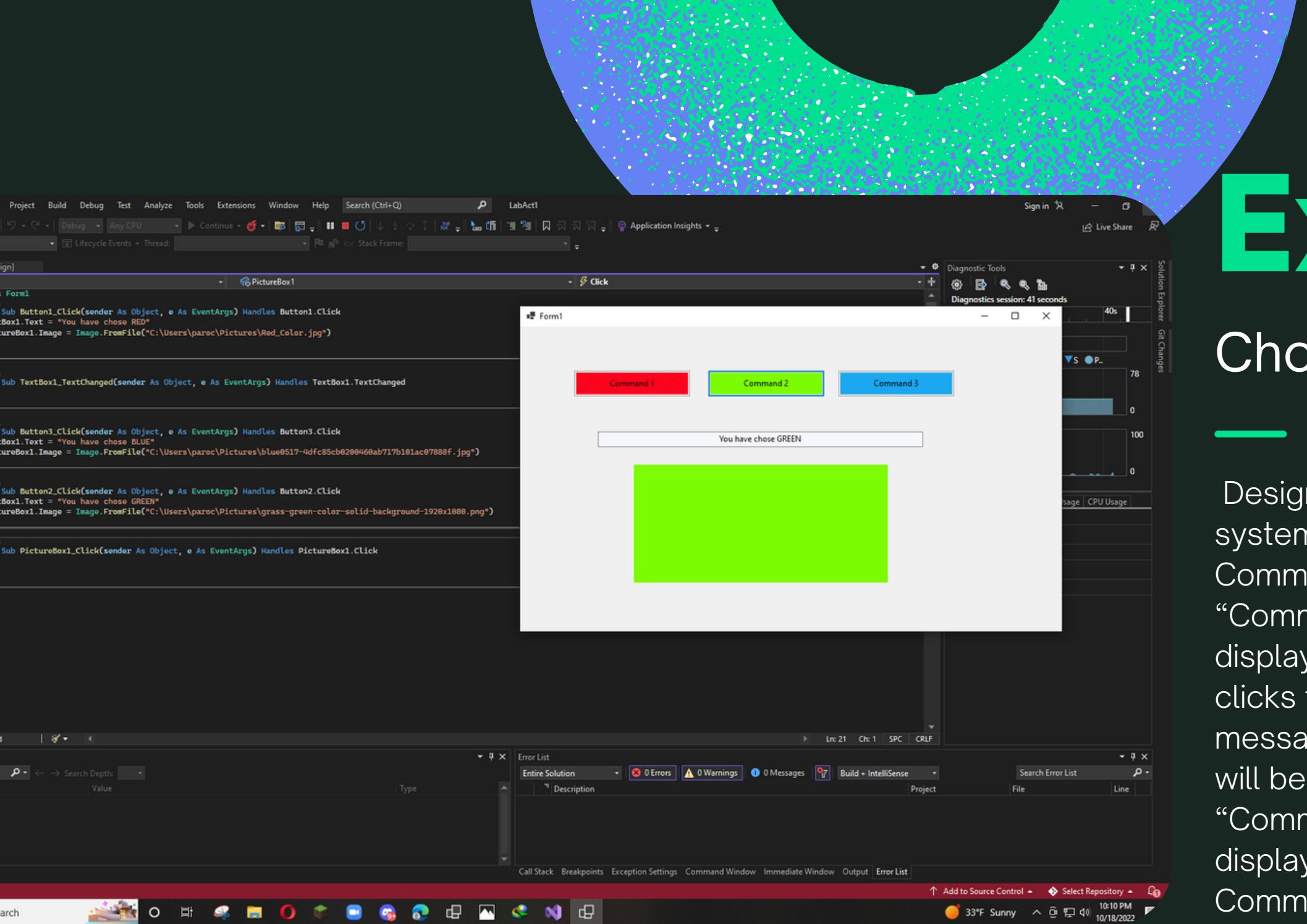
Design and develop a simple Message box and Option buttons application that when the user clicks one of the three option buttons, it will indicate in the Message box on which option button the user had clicked. For example if option button 2 was clicked by the user, it will display “Option button 2 is clicked!” at the Message box. It will do the same with Option button 1 and Option button 3. Follow the given figure below in designing and developing the application system.

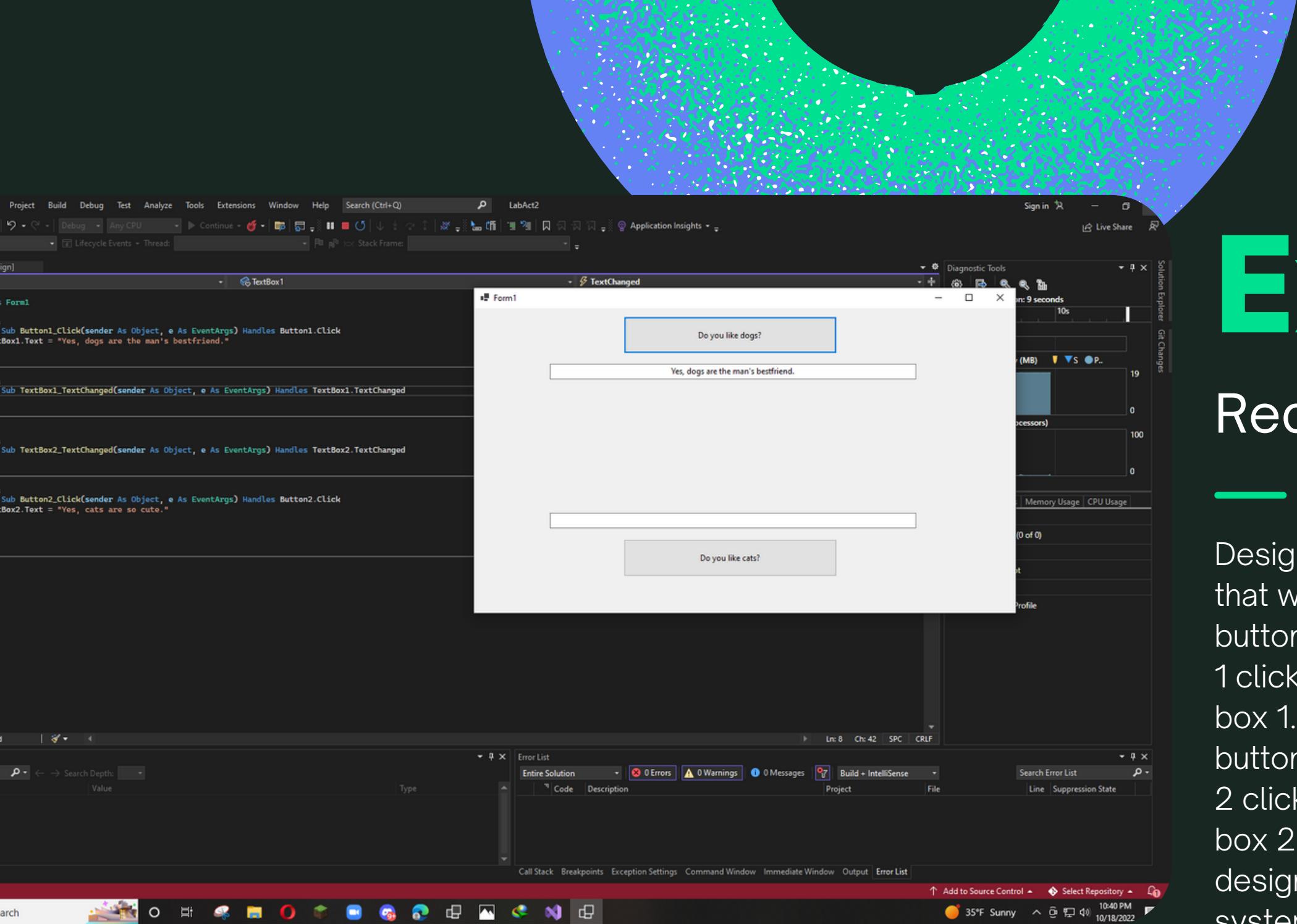


Example #6

Choose a Button

Design and develop an application system that when the user clicks the Command button 1, the message “Command button 1 clicked!” will be displayed at the Text box. When the user clicks the Command button 2, the message “Command button 2 clicked!” will be displayed at the Text box, and “Command button 3 clicked!” will be displayed when the user clicks the Command button 3. Follow the given figure below in designing and developing the application system.





Example #7

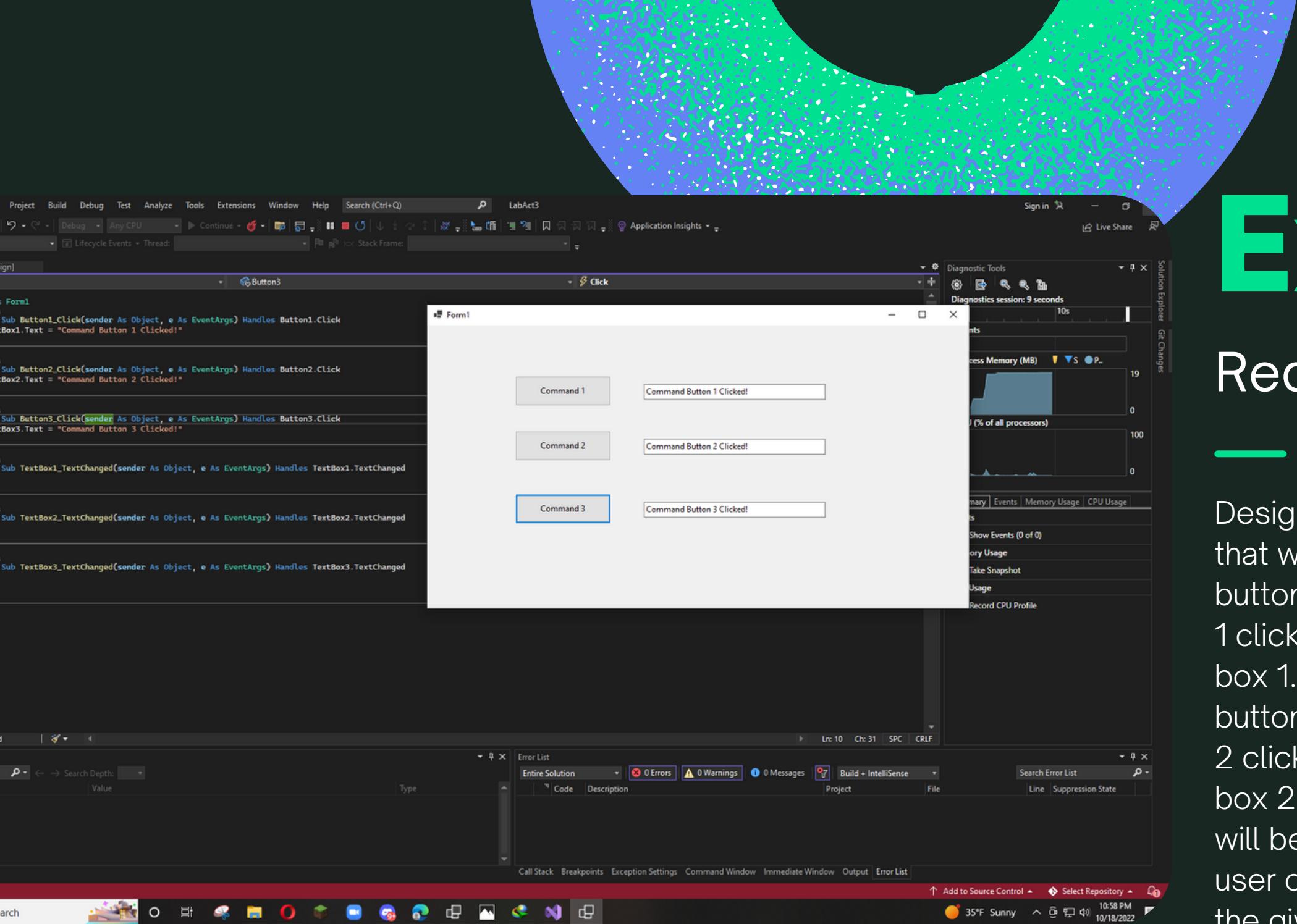
Redirecting Button Output #1

Design and develop an application system that when the user clicks the Command button 1, the message “Command button 1 clicked!” will be displayed at the Text box 1. When the user clicks the Command button 2, the message “Command button 2 clicked!” will be displayed at the Text box 2. Follow the given figure below in designing and developing the application system.

Example #8

Redirecting Button Output #2

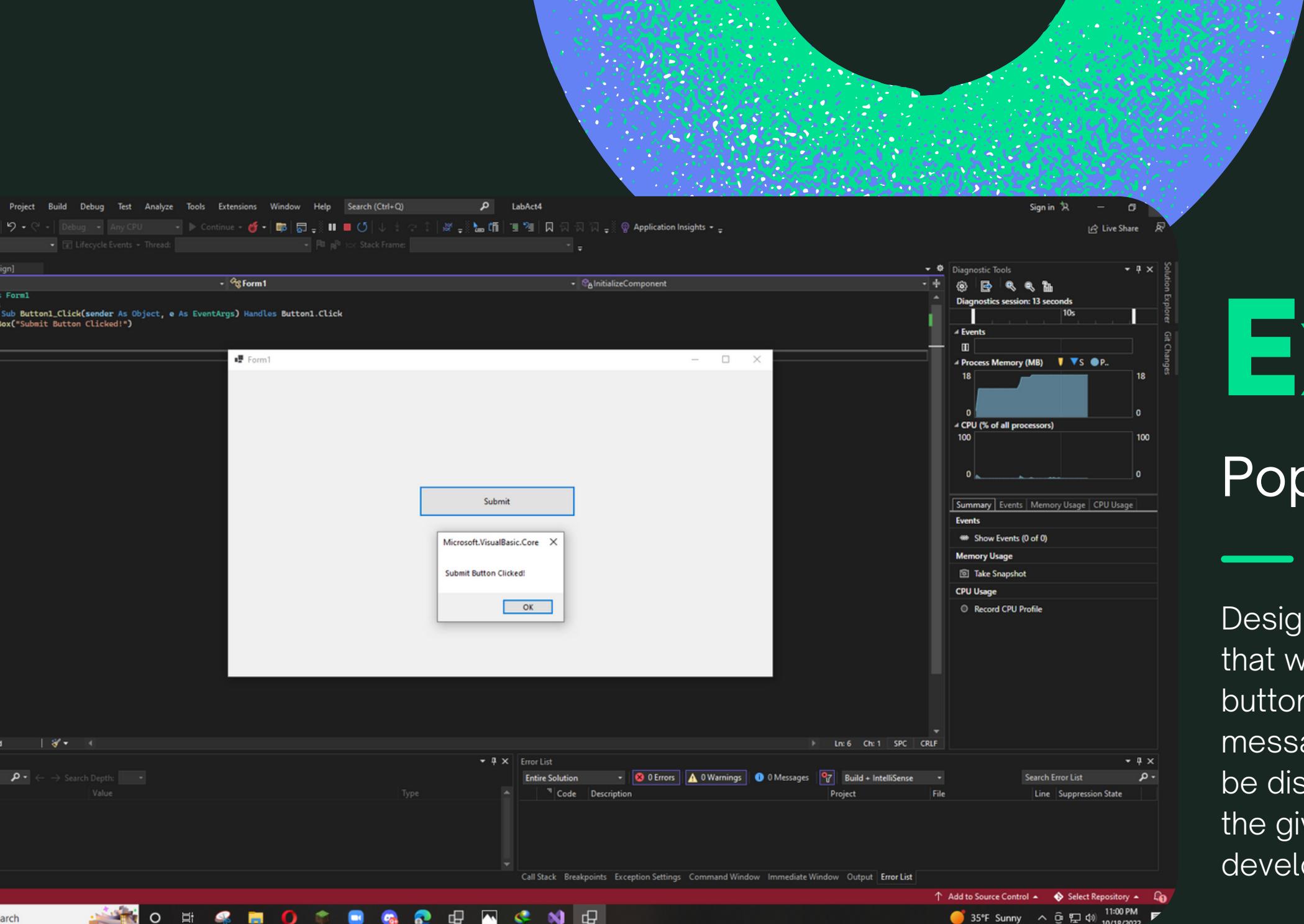
Design and develop an application system that when the user clicks the Command button 1, the message “Command button 1 clicked!” will be displayed at the Text box 1. When the user clicks the Command button 2, the message “Command button 2 clicked!” will be displayed at the Text box 2, and “Command button 3 clicked!” will be displayed at Text box 3 when the user clicks the Command button 3. Follow the given figure below in designing and developing the application system.



Example #9

Pop-up Message Box

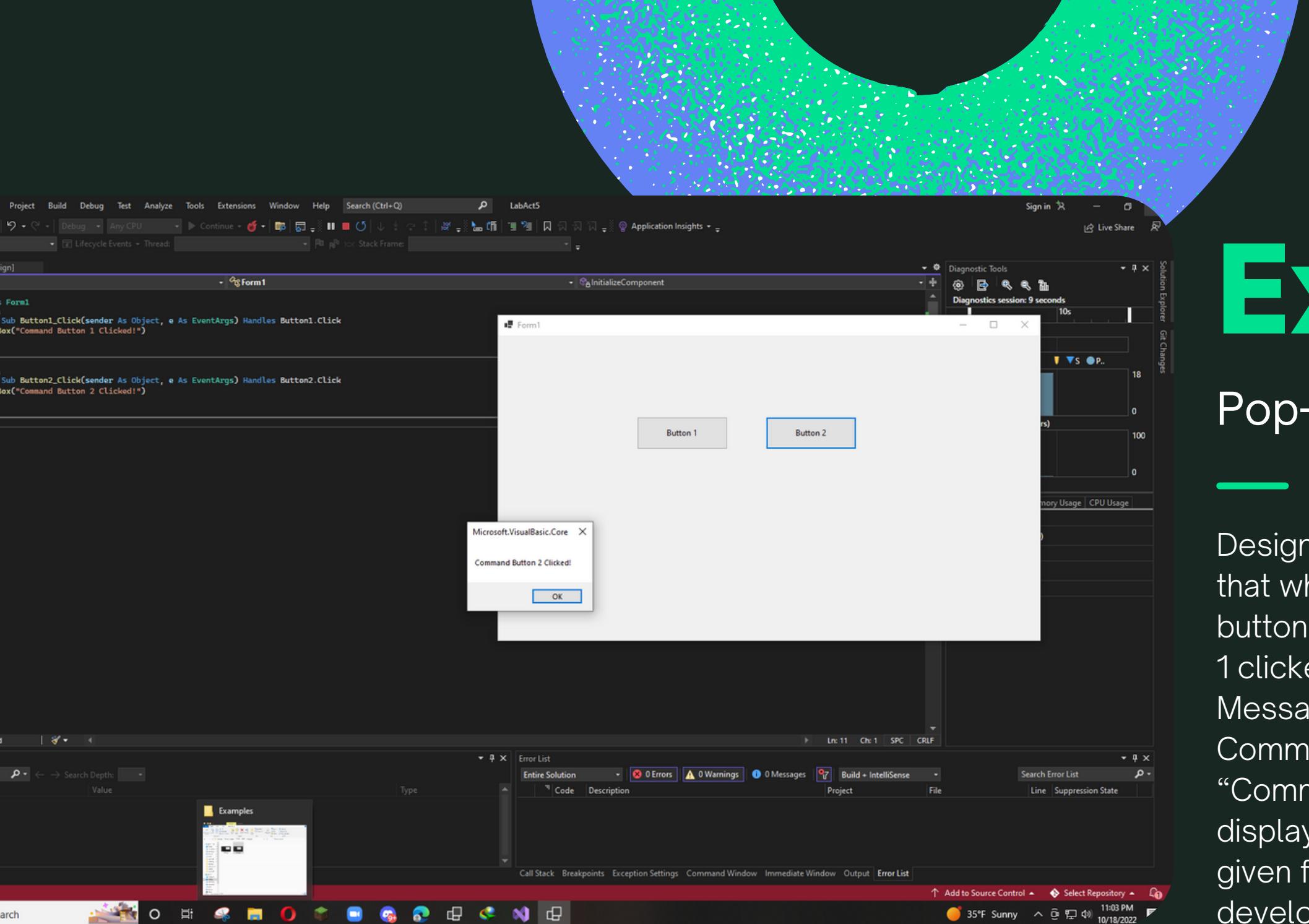
Design and develop an application system that when the user clicks the Command button with the caption “Submit”, the message “Submit button 1 clicked!” will be displayed at the Message box . Follow the given figure below in designing and developing the application system.



Example #10

Pop-up Message on Chosen Button

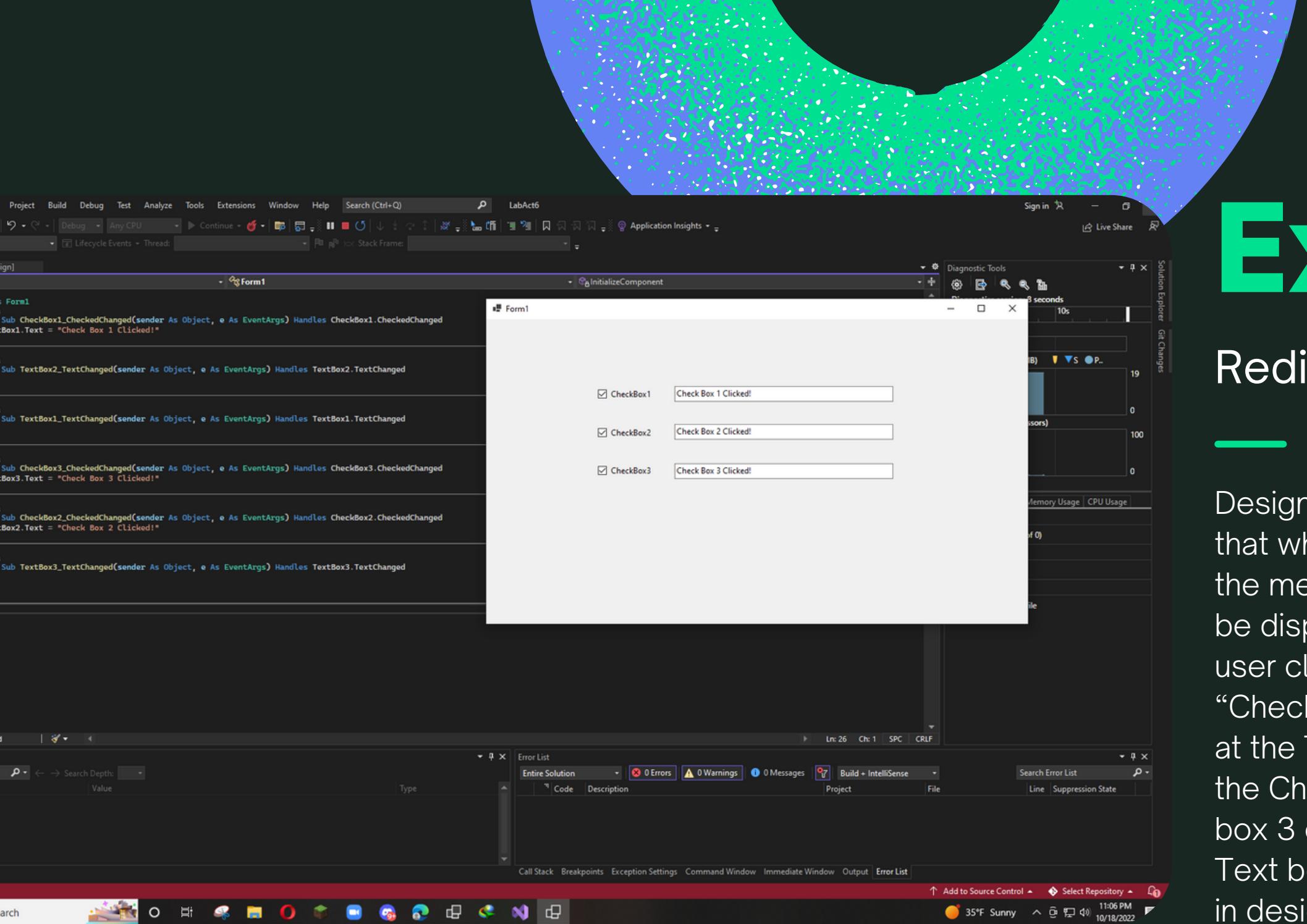
Design and develop an application system that when the user clicks the Command button 1, the message “Command button 1 clicked!” will be displayed at the Message box. When the user clicks the Command button 2, the message “Command button 2 clicked!” will be displayed at the Message box. Follow the given figure below in designing and developing the application system.



Example #11

Redirecting Check Box Output

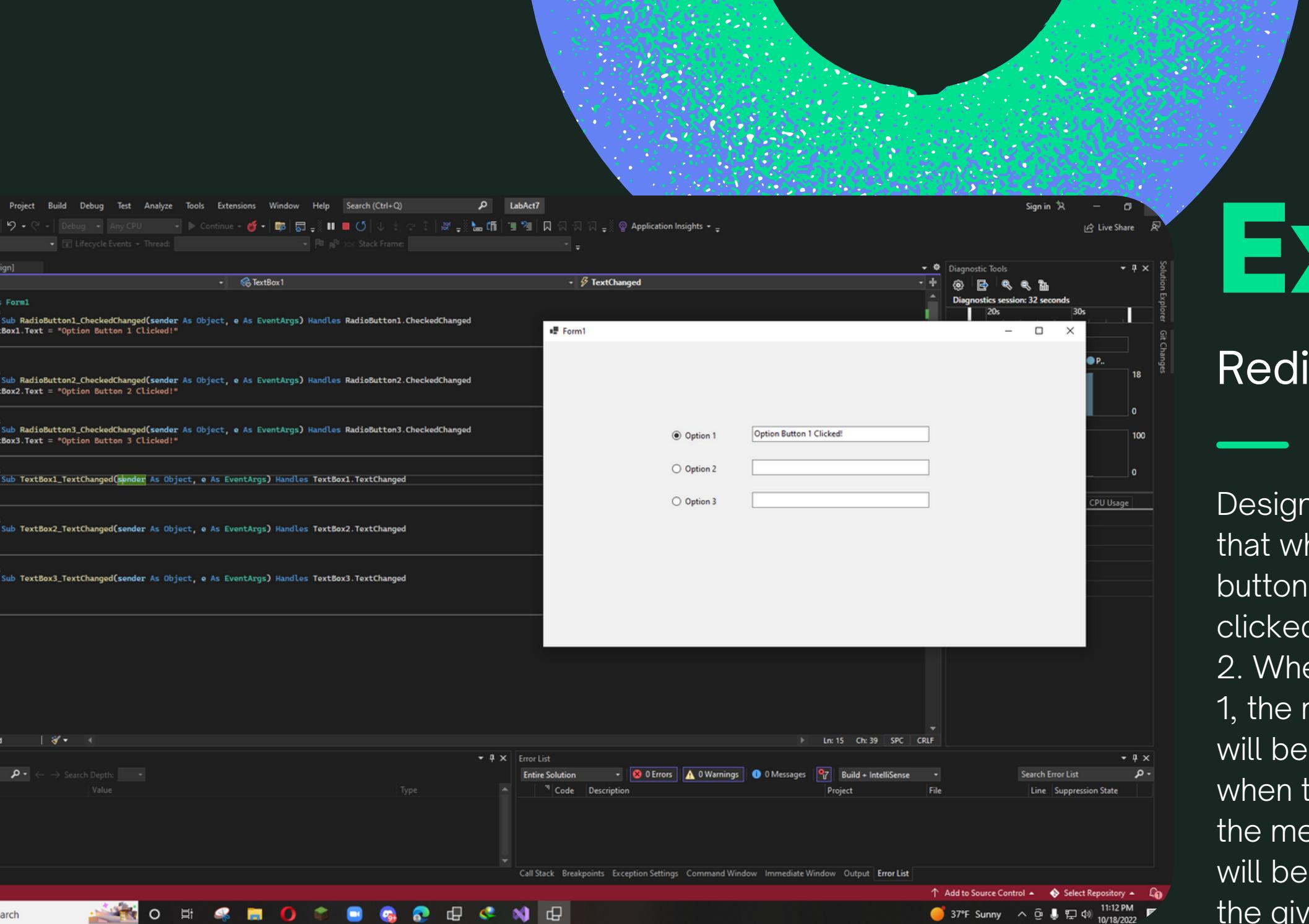
Design and develop an application system that when the user clicks the Check box 1, the message “Check box 1 clicked!” will be displayed at the Text box 1. When the user clicks the Check box 2, the message “Check box 2 clicked!” will be displayed at the Text box 2 and when the user clicks the Check box 3, the message “Check box 3 clicked!” will be displayed at the Text box 3. Follow the given figure below in designing and developing the application system.



Example #12

Redirecting Option Button Output

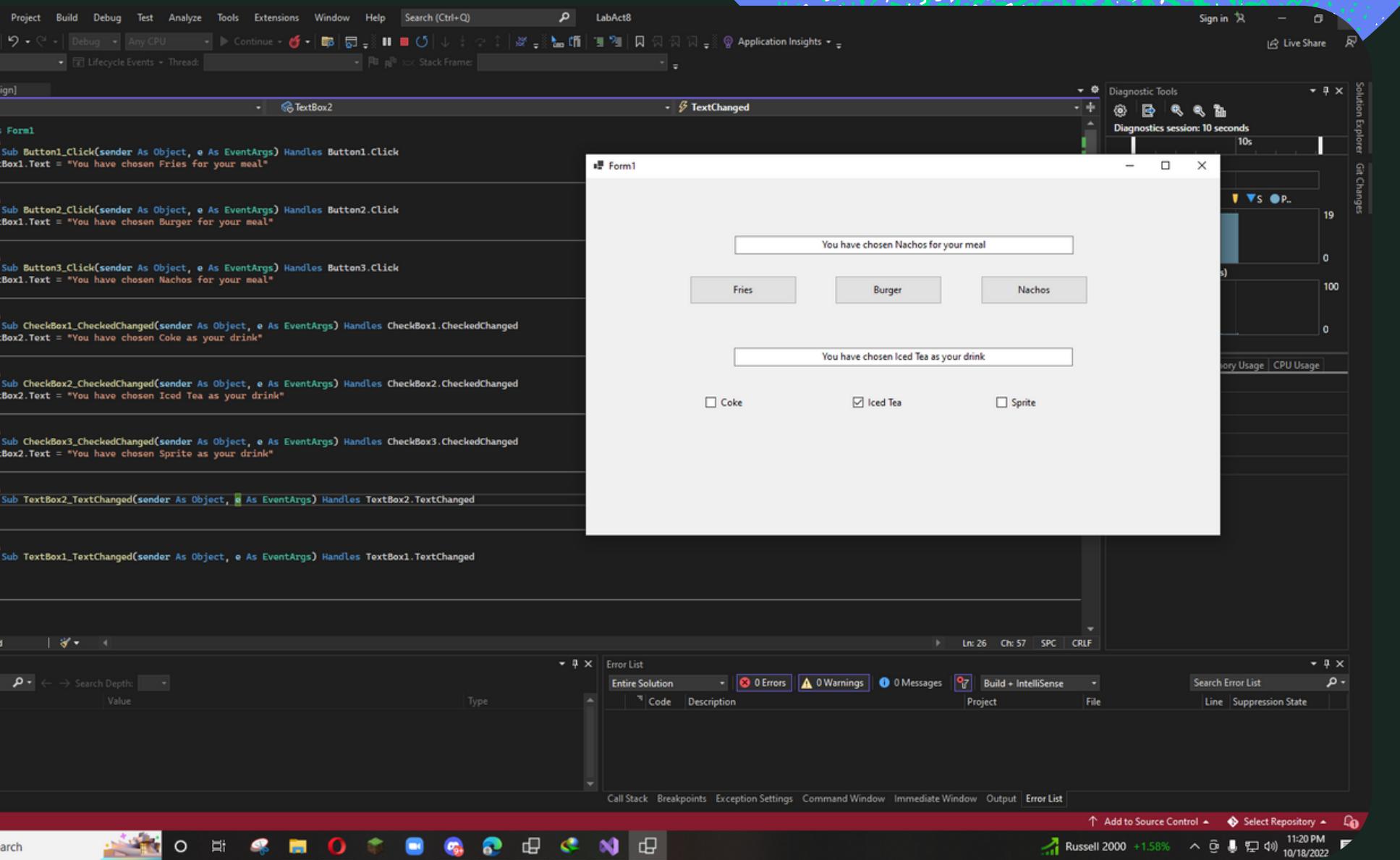
Design and develop an application system that when the user clicks the Option button 2, the message “Option button 2 clicked!” will be displayed at the text box 2. When the user clicks the Option button 1, the message “Option button 1 clicked!” will be displayed at the text box 1 and when the user clicks the Option button 3, the message “Option button 3 clicked!” will be displayed at the text box. Follow the given figure below in designing and developing the application system.



Example #13

Multiple Check Box Input and Output #1

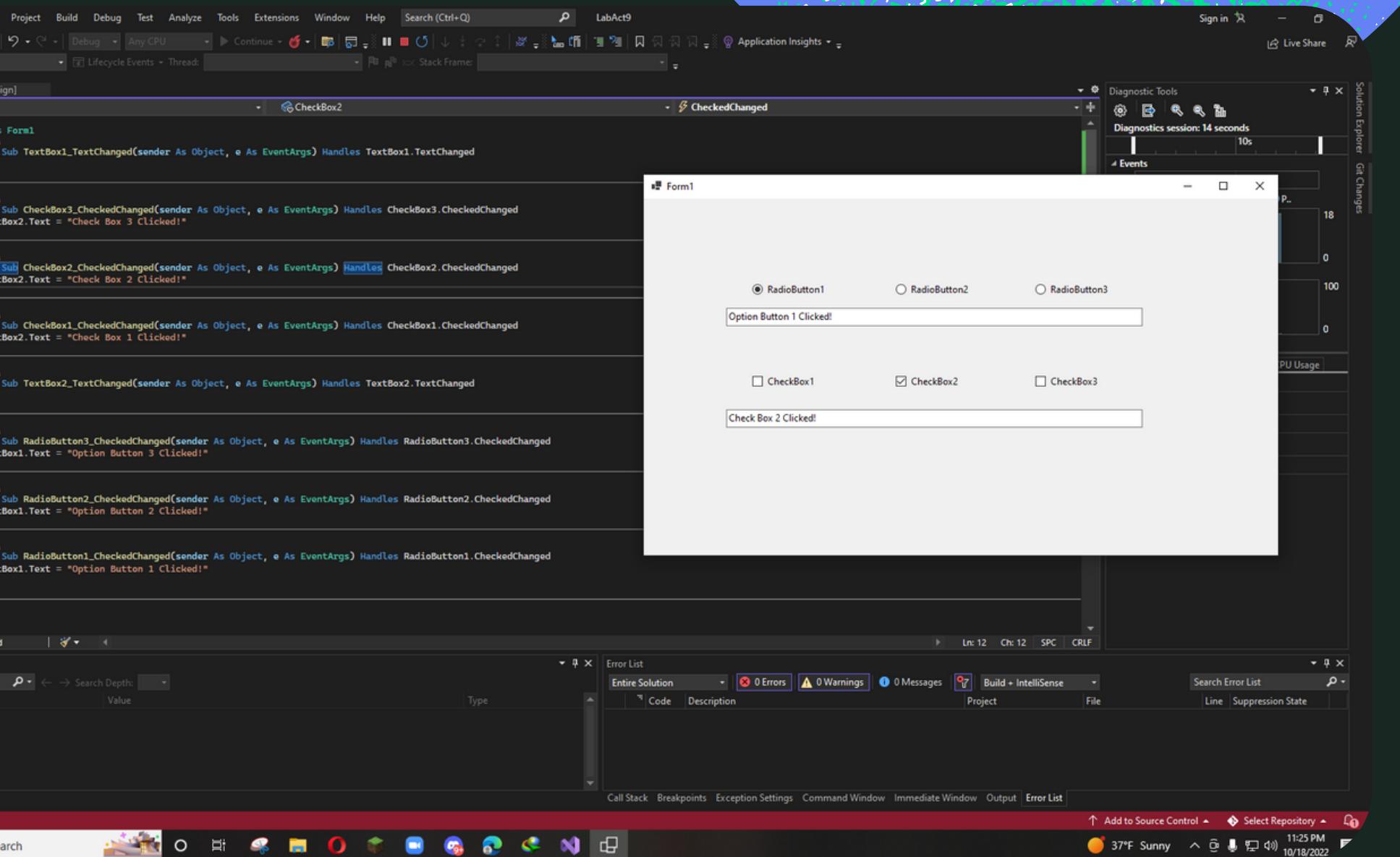
Design and develop an application system that when the user clicks the Command button 1, the message “Command button 1 clicked!” will be displayed at the text box 1. When the user clicks the Command button 2, the message “Command button 2 clicked!” will be displayed at the text box 1 and when the user clicks the Command button 3, the message “Command button 3 clicked!” will be displayed at the text box 1. When the user clicks the Check box 1, the message “Check box 1 clicked!” will be displayed at the text box 2. When the user clicks the Check box 2, the message “Check box 2 clicked!” will be displayed at text box 2, and when the user clicks the Check box 3, the message “Check box 3 clicked!” will be displayed at the text box 2. Fol



Example #14

Multiple Check Box Input and Output #2

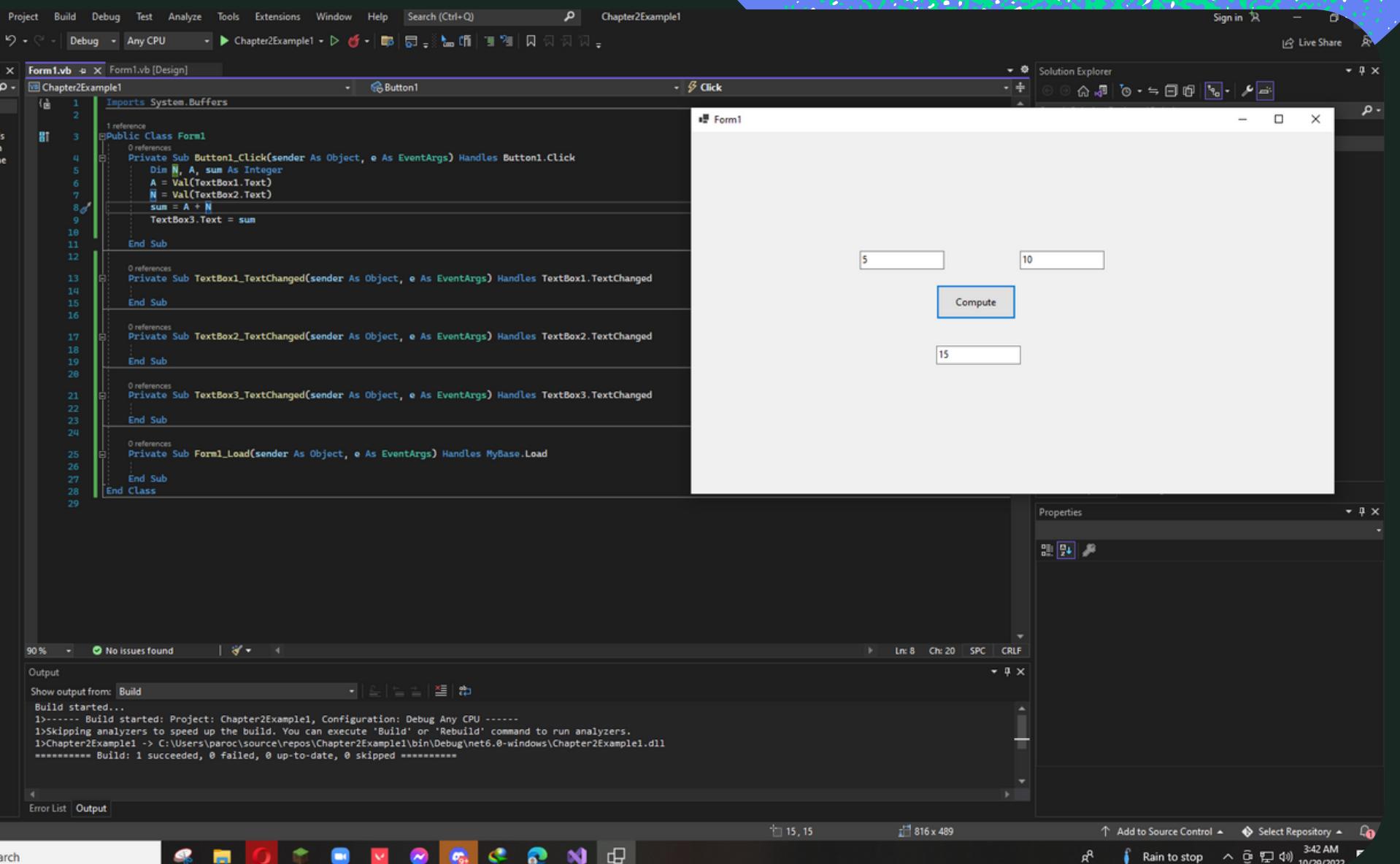
Design and develop an application system that when the user clicks the Option 1, the message “Option button 1 clicked!” will be displayed at the text box 1. When the user clicks the Option button 2, the message “Option button 2 clicked!” will be displayed at the text box 1 and when the user clicks the Option3 Option 1 Option 2 Option 3 Option button 2 clicked! Buttoncheck1 Check 1 Check 2 Check 3 Command button 3 clicked! Button 1 Button 2 Button 3 Check box 2 clicked! 20 Option button 3, the message “Option button 3 clicked!” will be displayed at the text box 1. When the user clicks the Check box 2, the message “Check box 2 clicked!” is displayed at the text box 2. When the user clicks the Check box 1, the message “Check box 1 clicked!” will be displayed at the text box 2 and when the user clicks the Check box 3, the message “Check box 3 clicked!” will be displayed at the Text box 2. Follow the given figure below in designing and developing the application system.



Example #15

Simple Addition

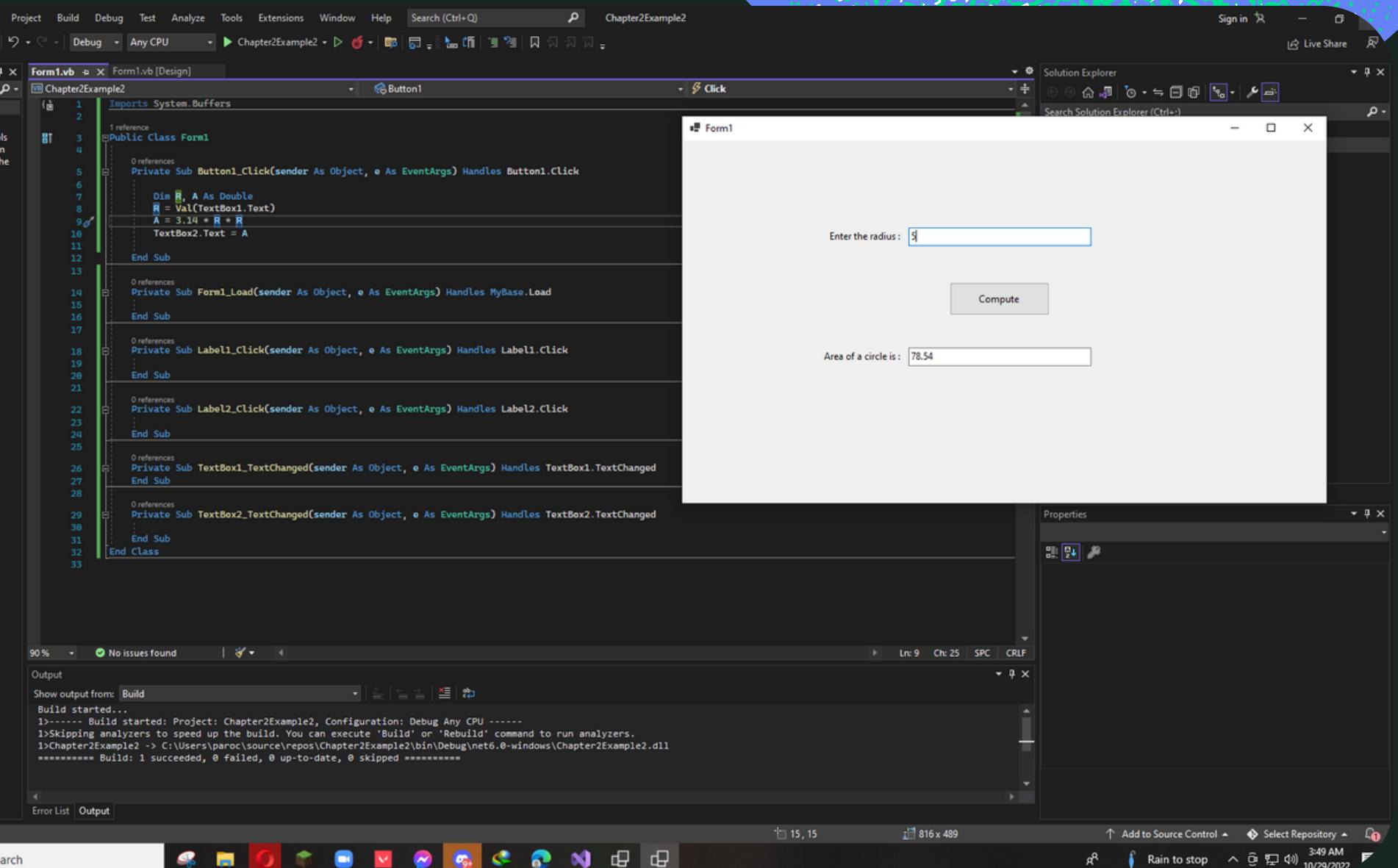
Design and develop a simple application program that calculates the sum of two input numbers. Follow the given figure below in designing and developing the application program. When the user enters two numbers in two text boxes, the user should click the Command button (with a Compute caption) before the resulting computed value will be displayed at the third box (Text box 3).



Example #16

Computing the Area of a Circle

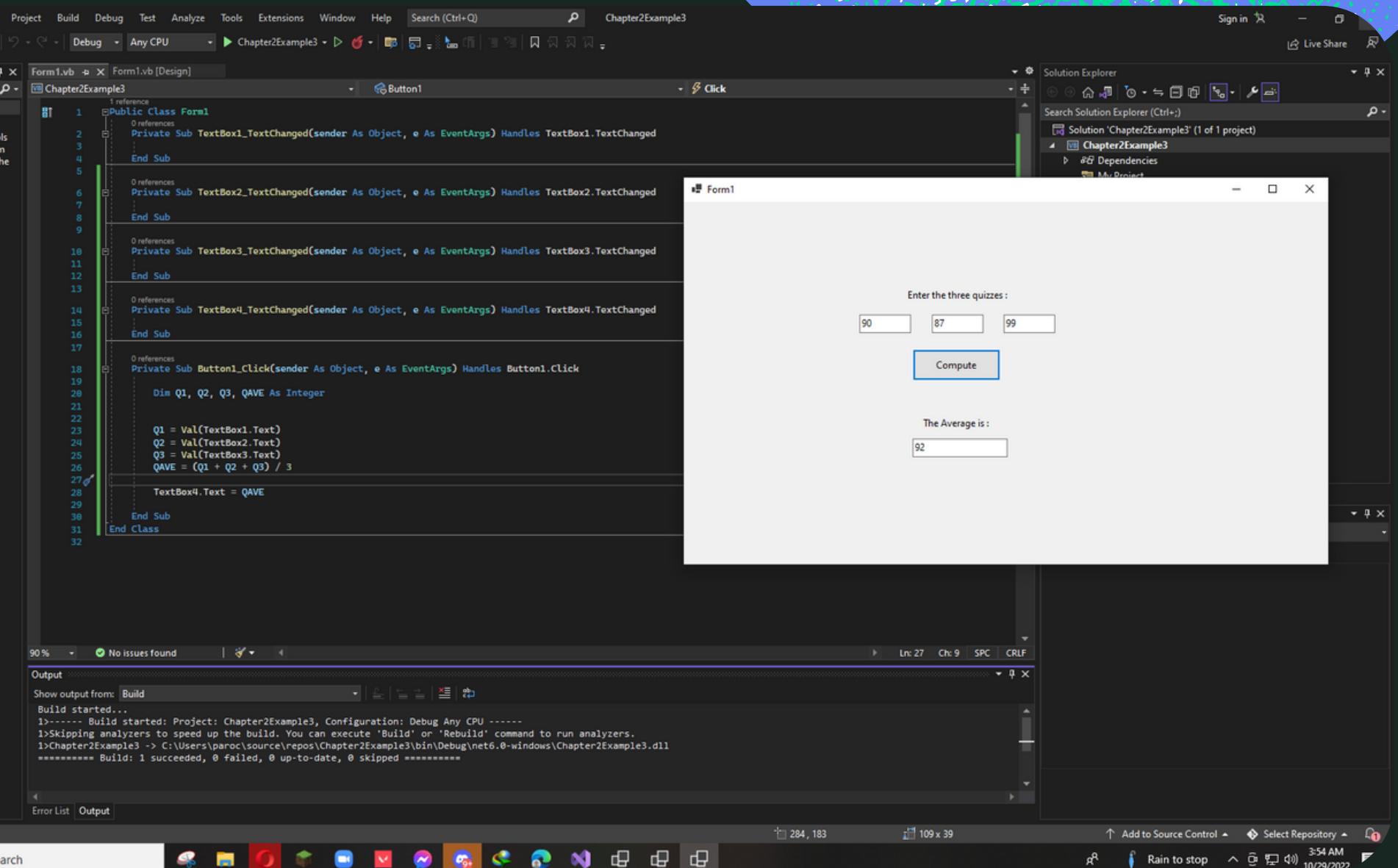
Design and develop a simple application system that computes the area of a circle. Use the formula: $A = \pi r^2$, where π (π) is approximately equivalent to 3.1416. Follow the given figure below in designing and developing the application system. When the user enters the value of the radius in text box 1, the user should click the Command button (with a Compute caption) before the resulting computed value will be displayed at text box 2.



Example #17

Average of Three Quizzes

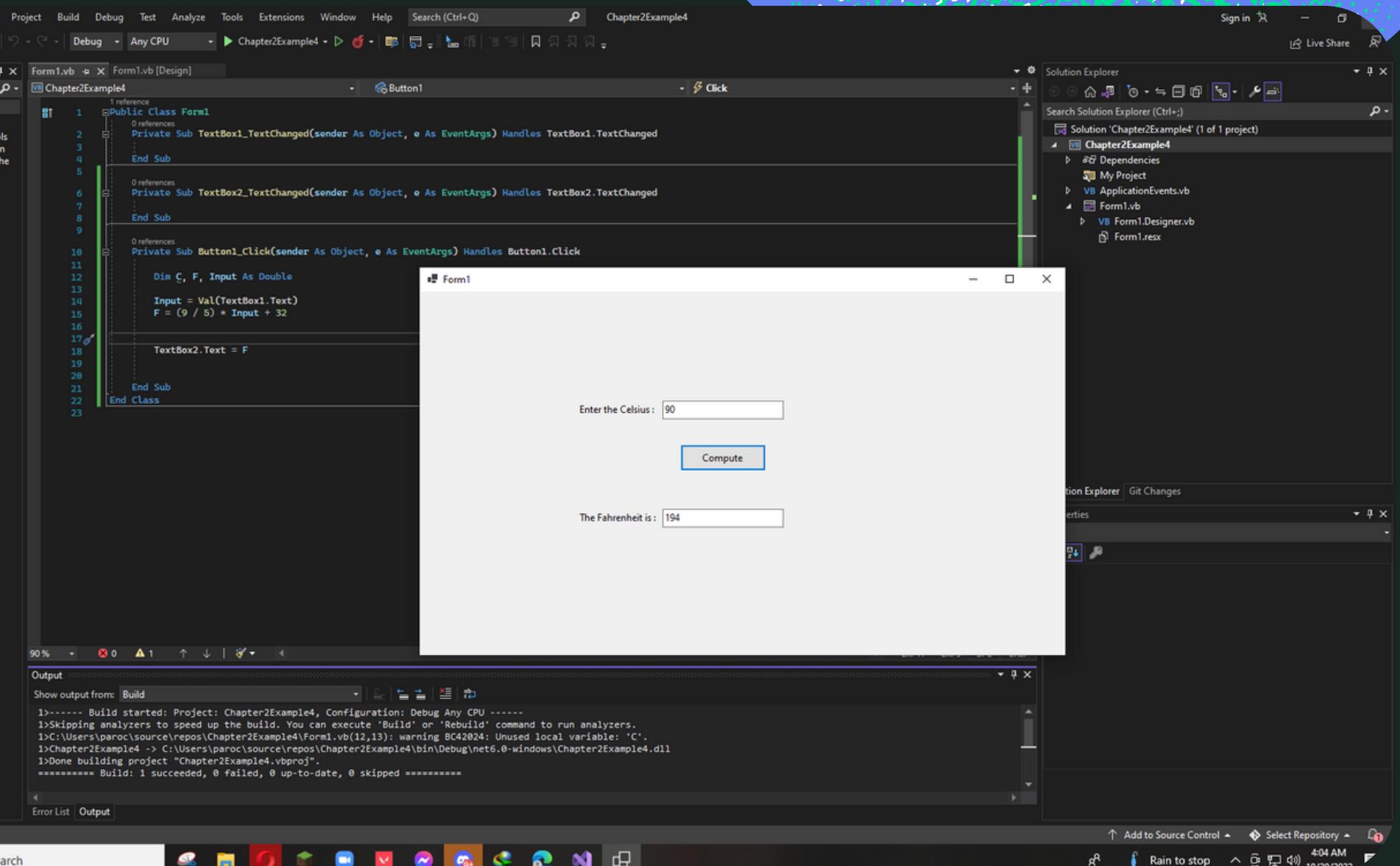
Design and develop a simple application system that computes the average of three input quizzes. Then display the result. Follow the given figure below in designing and developing the application system. When the user enters the score of three quizzes in text box 1, 2 and 3, the user should click the Command button (with a Compute caption) before the resulting computed value will be displayed at text box 4.



Example #18

Converting Celsius to Fahrenheit

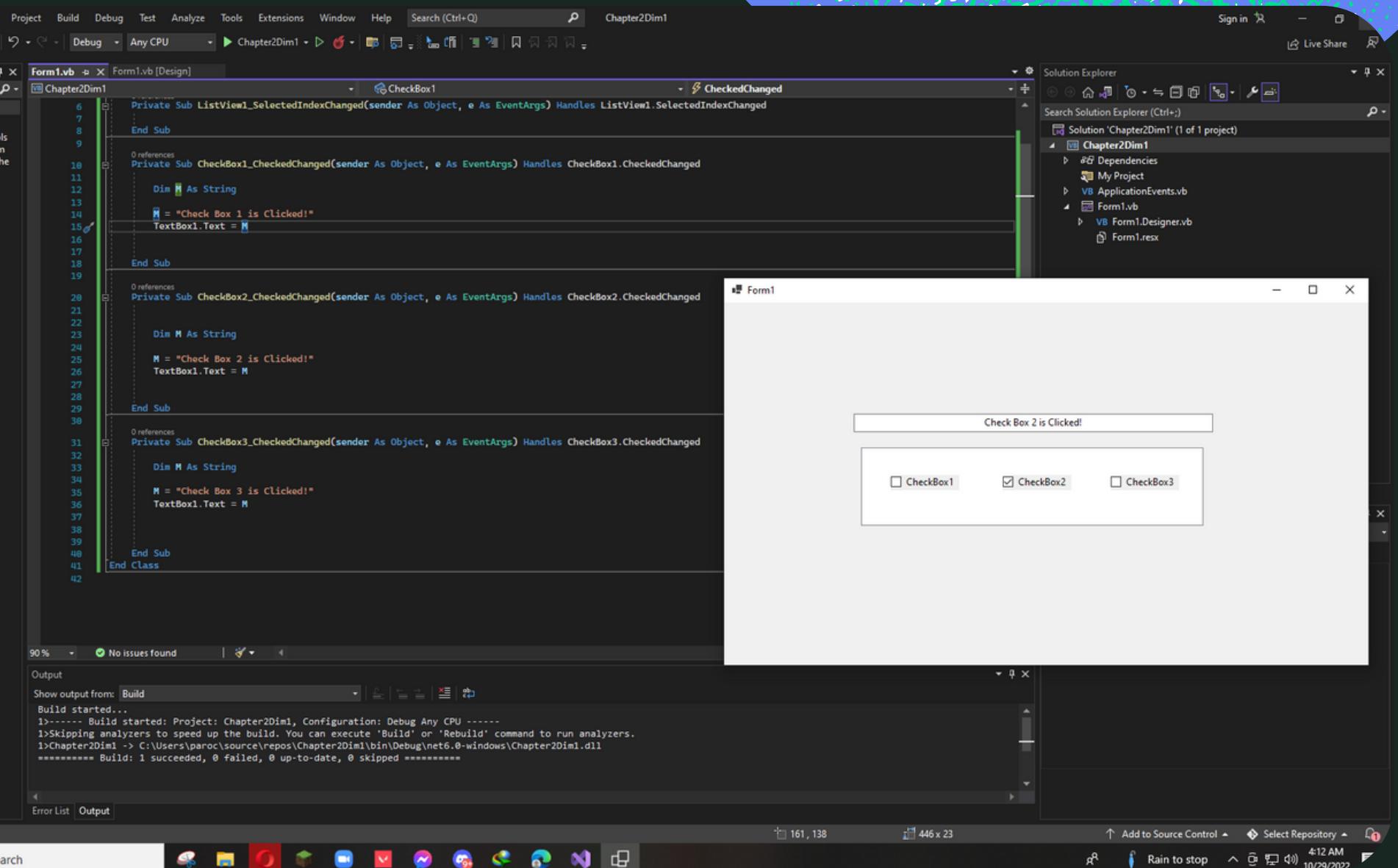
Design and develop a simple application system that converts the input value of Celsius into its equivalent Fahrenheit degree. Use the formula: $F = (9/5) * C + 32$. Follow the given figure below in designing and developing the application system. When the user enters the value of the Celsius in text box 1, the user should click the Command button (with a Compute caption) before the resulting computed value will be displayed at text box 2.



Example #19

Introduction to Dim Variable Declaration #1

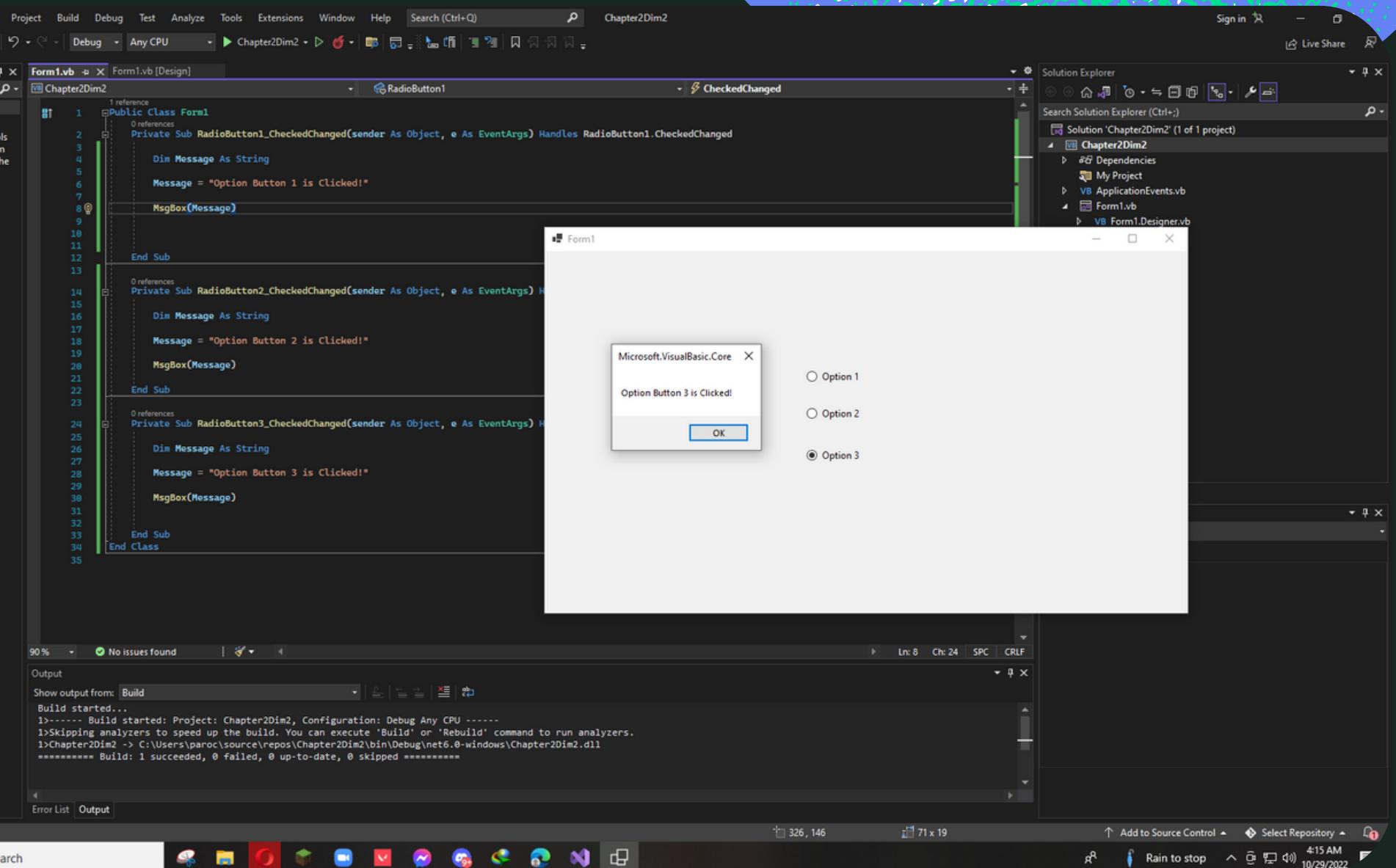
Design and develop a simple Check box and Text box application that when the user clicks one of the three check boxes, it will indicate in the text box on which check box the user had clicked. For example if Check box 2 was clicked by the user, it will display “Check box 2 is clicked!” at the text box. It will do the same with Check box 1 and Check box 3. Follow the given figure below in designing and developing the application system. Apply the Dim variable declaration.



Example #20

Introduction to Dim Variable Declaration #2

Design and develop a simple Message box and Option buttons application that when the user clicks one of the three option buttons, it will indicate in the Message box on which option button the user had clicked. For example if option button 2 was clicked by the user, it will display “Option button 2 is clicked!” at the Message box. It will do the same with Option button 1 and Option button 3. Follow the given figure below in designing and developing the application system. Apply the Dim variable declaration.



The screenshot shows the Microsoft Visual Studio IDE interface. The top menu bar includes Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, and a search bar. The title bar says "Chapter2Dim2". The left pane displays the code editor for "Form1.vb [Design]". The code contains three event handlers for RadioButtons:

```
Public Class Form1
    Private Sub RadioButton1_CheckedChanged(sender As Object, e As EventArgs) Handles RadioButton1.CheckedChanged
        Dim Message As String
        Message = "Option Button 1 is Clicked!"
        MsgBox(Message)
    End Sub

    Private Sub RadioButton2_CheckedChanged(sender As Object, e As EventArgs) Handles RadioButton2.CheckedChanged
        Dim Message As String
        Message = "Option Button 2 is Clicked!"
        MsgBox(Message)
    End Sub

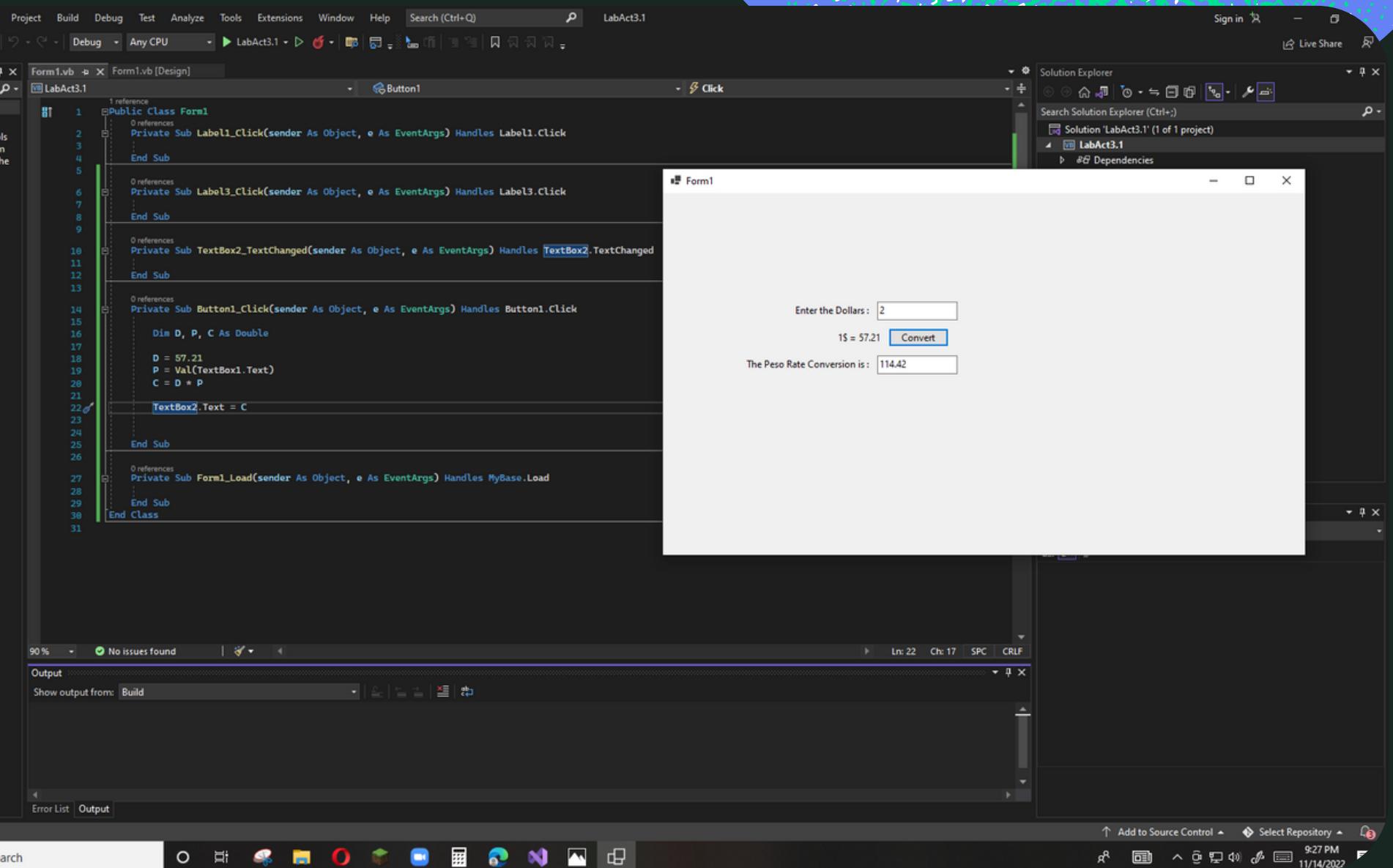
    Private Sub RadioButton3_CheckedChanged(sender As Object, e As EventArgs) Handles RadioButton3.CheckedChanged
        Dim Message As String
        Message = "Option Button 3 is Clicked!"
        MsgBox(Message)
    End Sub
End Class
```

The right pane shows the Solution Explorer with a single project named "Chapter2Dim2" containing files ApplicationEvents.vb, Form1.vb, and Form1.Designer.vb. A preview window shows a form titled "Form1" with three radio buttons labeled "Option 1", "Option 2", and "Option 3". An "OK" button is at the bottom. A message box titled "Microsoft.VisualBasic.Core" is displayed with the text "Option Button 3 is Clicked!". The bottom pane shows the Output window with build logs and the Error List tab.

Example #21

Converting Dollars to Philippines Peso using Dim Variable Declaration

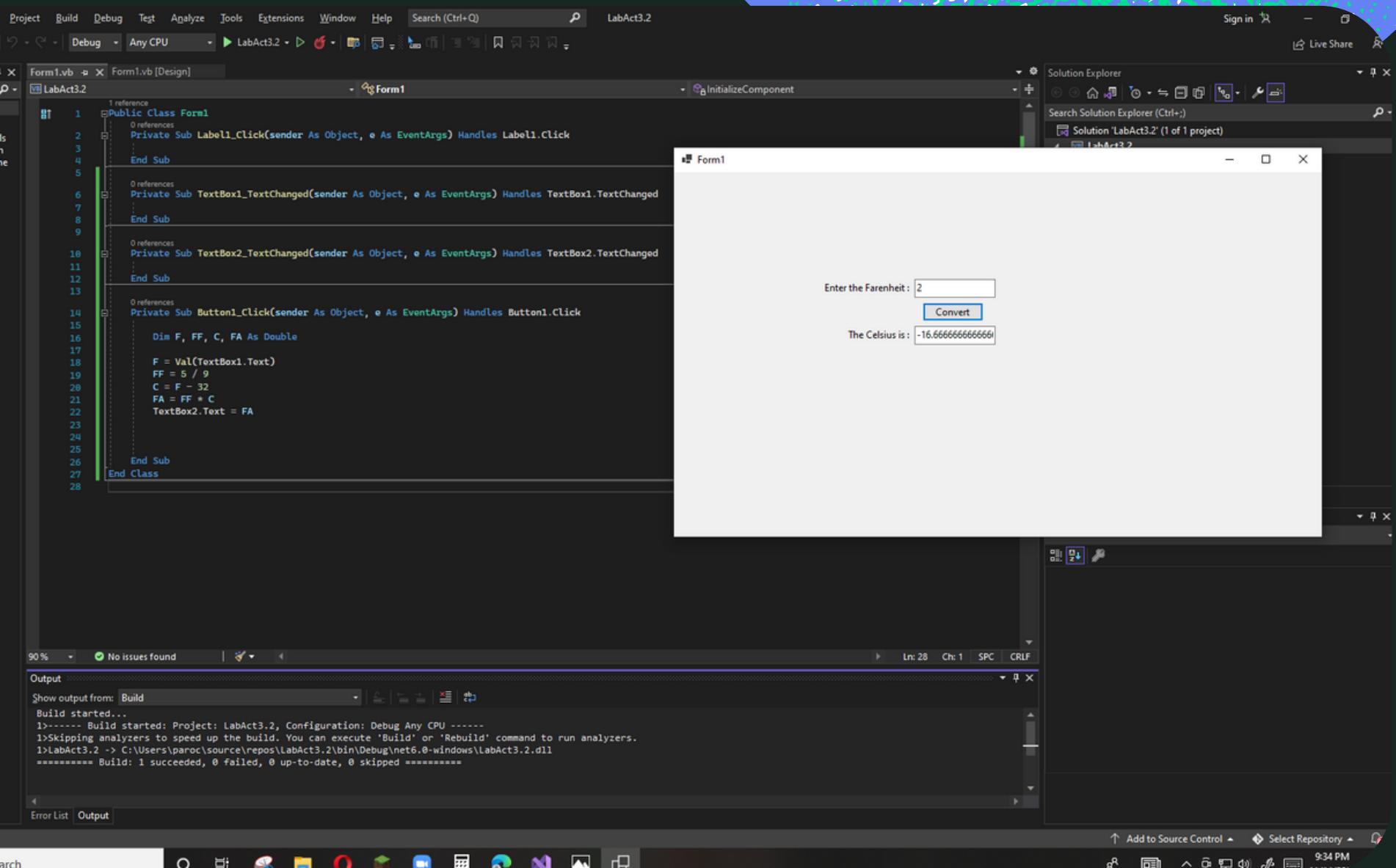
Design and develop a simple application system that converts the input dollar(s) into its equivalent Peso rate. Follow the given figure below in designing and developing the application system. When the user enters the value of the dollar(s) in text box 1, the user should click the Command button (with a Convert caption) before the resulting computed value will be displayed at text box 2.



Example #22

Converting Farenheit to Celsius using Dim Variable Declaration

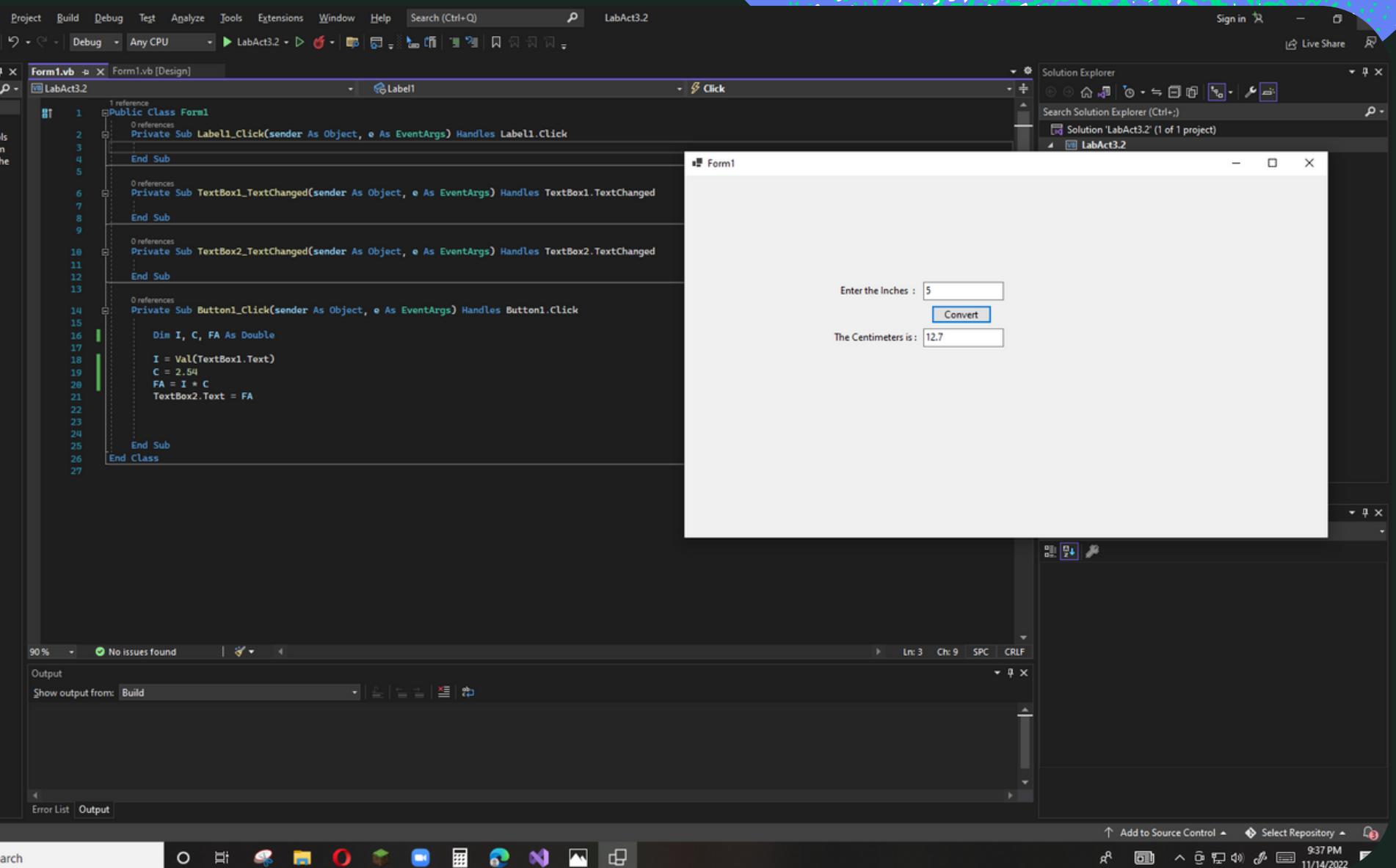
Design and develop a simple application system that converts the input Farenheit into its equivalent Celsius degree. Use the formula: $C = (5/9) * F - 32$. Follow the given figure below in designing and developing the application system. When the user enters the value of the Farenheit in text box 1, the user should click the Command button (with a Convert caption) before the resulting computed value will be displayed at text box 2.



Example #23

Converting Inches to Centimeters using Dim Variable Declaration

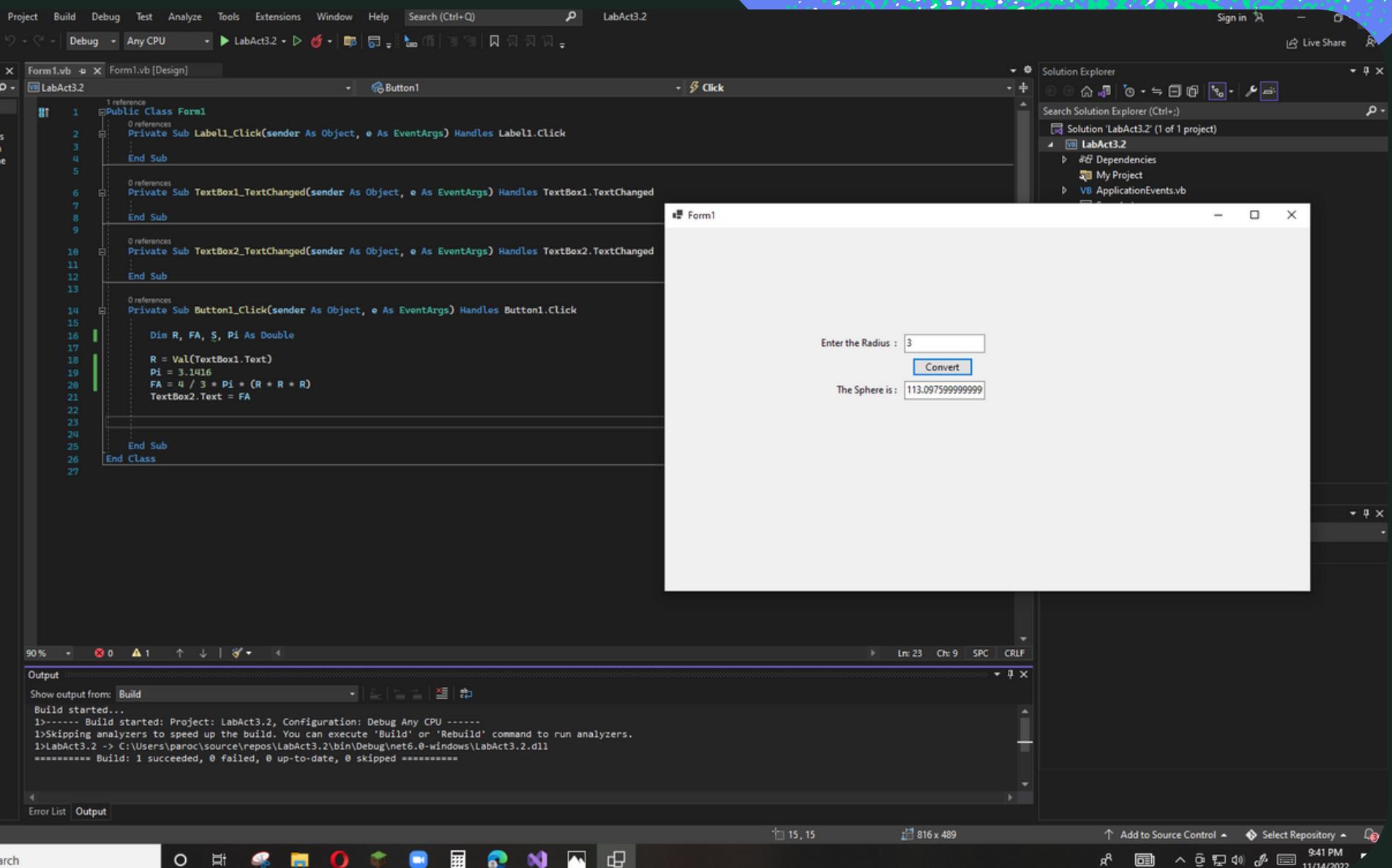
Design and develop a simple application system that converts the input inch(es) into its equivalent centimeters. One inch is equivalent to 2.54 cms. Follow the given figure below in designing and developing the application system. When the user enters the value of the inch(es) in text box 1, the user should click the Command button (with a Convert caption) before the resulting computed value will be displayed at text box 2.



Example #24

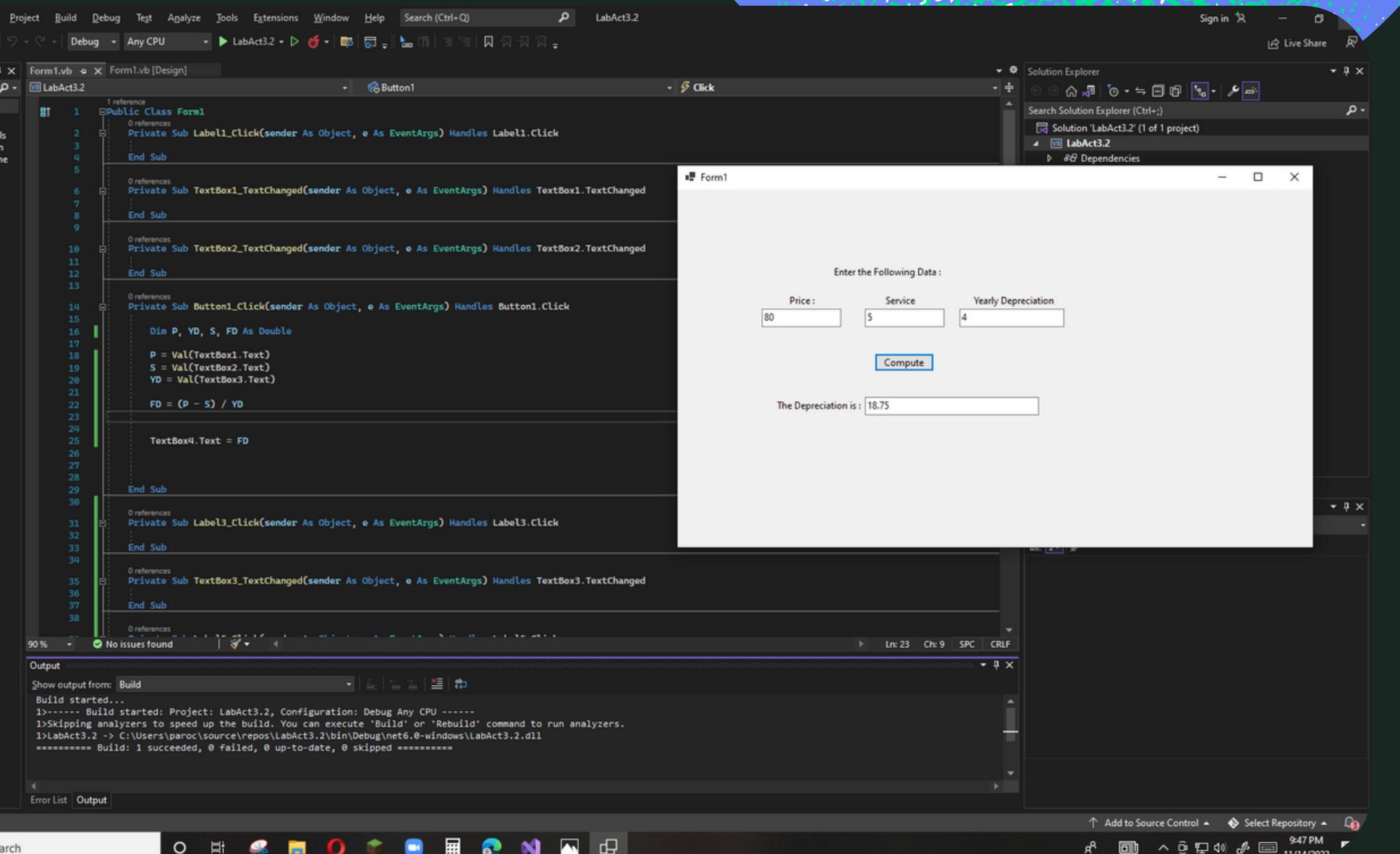
Computing the Volume of a Sphere using Dim Variable Declaration

Design and develop a simple application system that computes the volume of a sphere. Use the formula: $V = \frac{4}{3} \pi r^3$, where π (π) is approximately equivalent to 3.1416. Follow the given figure below in designing and developing the application system. When the user enters the value of the radius in text box 1, the user should click the Command button (with a Compute caption) before the resulting computed value will be displayed at text box 2.



Example #25

Computing the Depreciation using Dim Variable Declaration

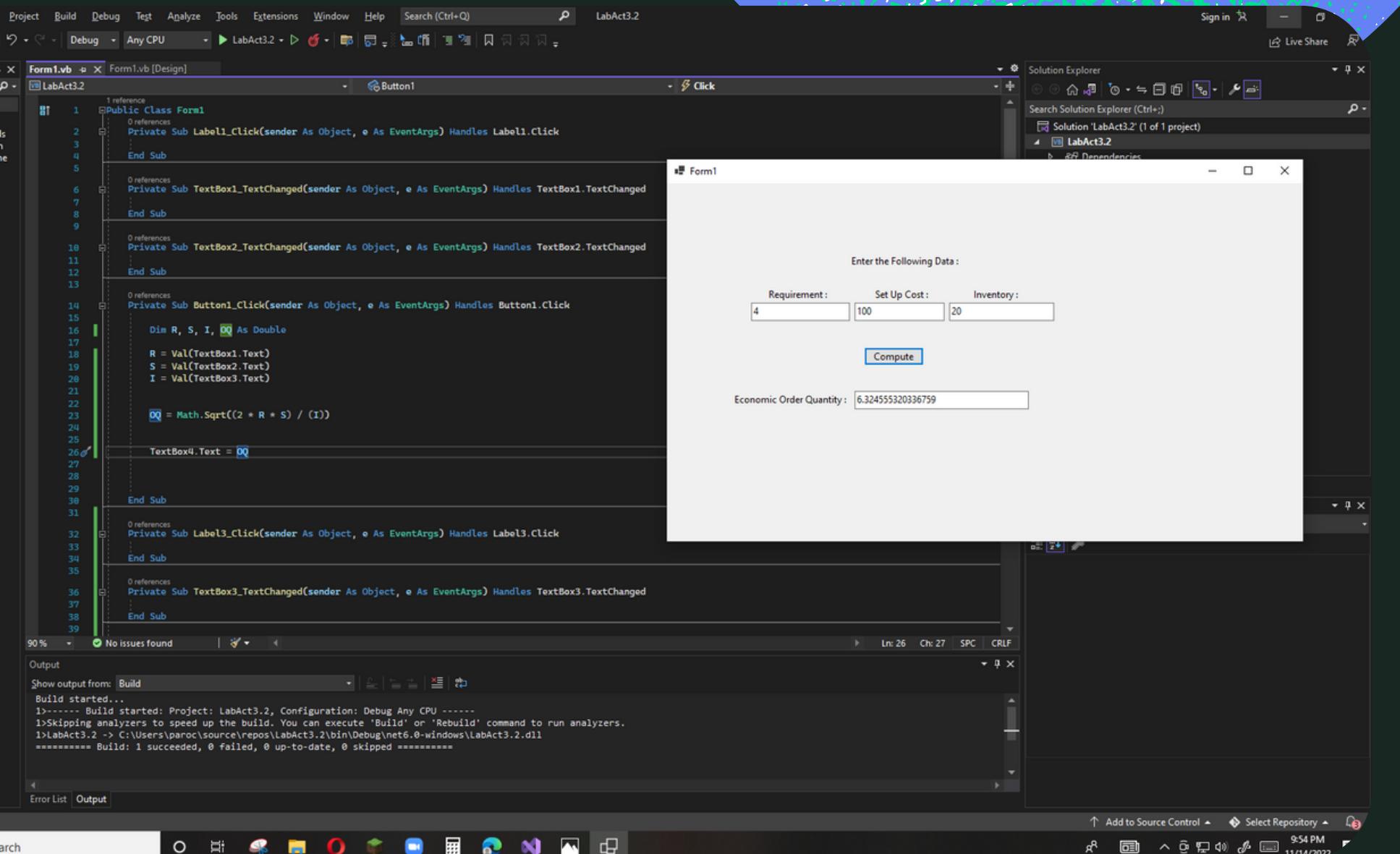


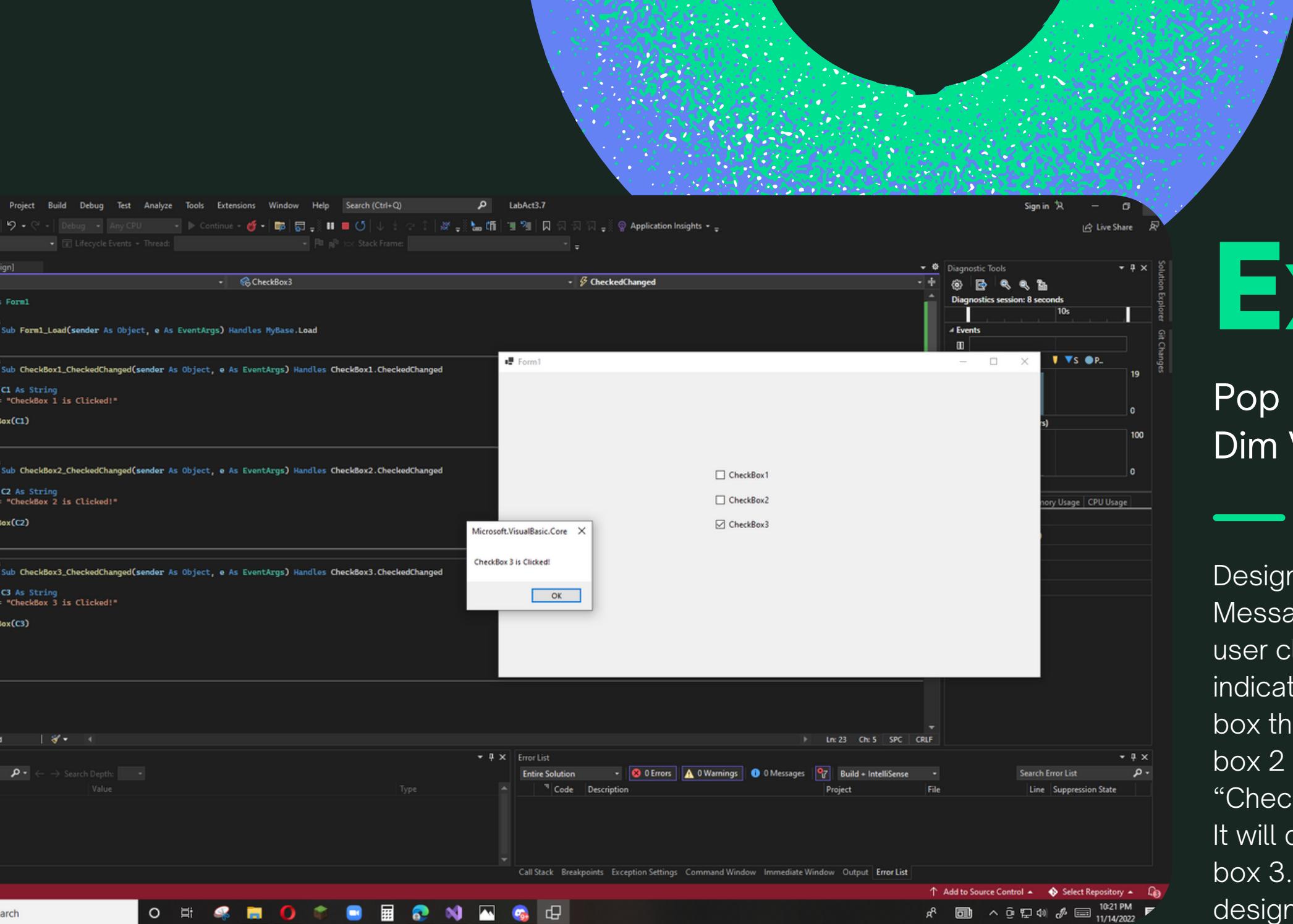
Design and develop a simple application system that computes the Depreciation cost of the item (D). Takes as input the purchase Price of an item (P), its expected number of years of Service (S), and Yearly depreciation for the item (Y). Use the formula: $D=P-S/Y$. Follow the given figure below in designing and developing the application system. After the user enters the purchase Price of an item (P), its expected number of years of Service (S), and Yearly depreciation for the item (Y) at text boxes 1,2 & 3, the user should click the Command button (with a Compute caption) before the resulting computed value will be displayed at text box 4.

Example #26

Computing the Economic Order Quantity using Dim Variable Declaration

Design and develop a simple application system that determines the most economical quantity to be stocked for each product that a manufacturing company has in its inventory. This quantity called economic order quantity (EOQ) is calculated as follows: $EOQ = \sqrt{2RS/I}$. After the user enters the total year production Requirement (R), its Set up cost per order (S), and Inventory carrying cost per unit (I) at text boxes 1,2 & 3, the user should click the Command button (with a Compute caption) before the resulting computed value will be displayed at text box 4





Example #27

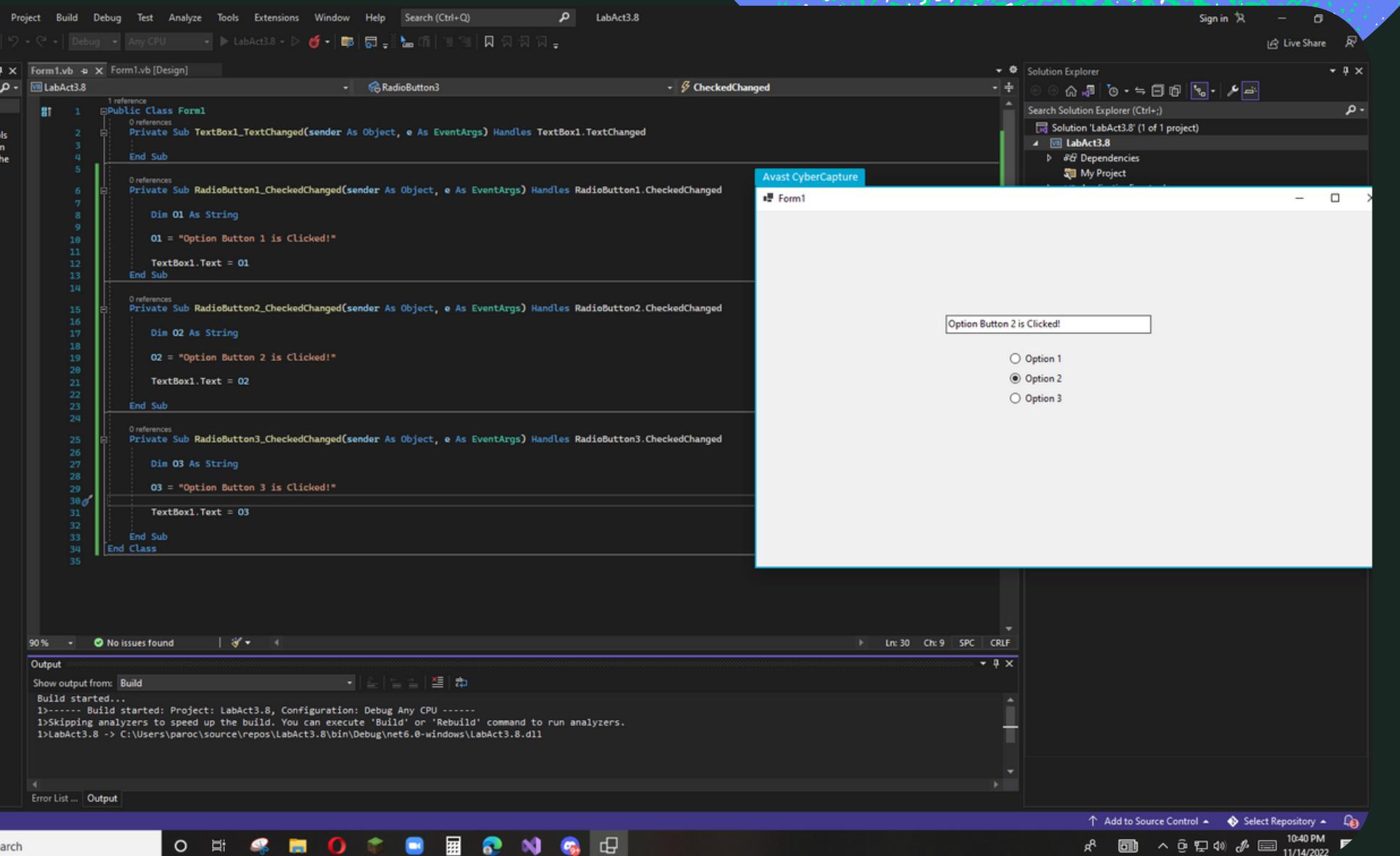
Pop - out Message Box via Check Box using Dim Variable Declaration

Design and develop a simple Check box and Message box application system that when the user clicks one of the three check boxes, it will indicate in the Message box on which check box the user had clicked. For example if Check box 2 was clicked by the user, it will display “Check box 2 is clicked!” at the Message box. It will do the same with Check box 1 and Check box 3. Follow the given figure below in designing and developing the application system. Apply the Dim variable declaration.

Example #28

Text Box Output via Option Box using Dim Variable Declaration

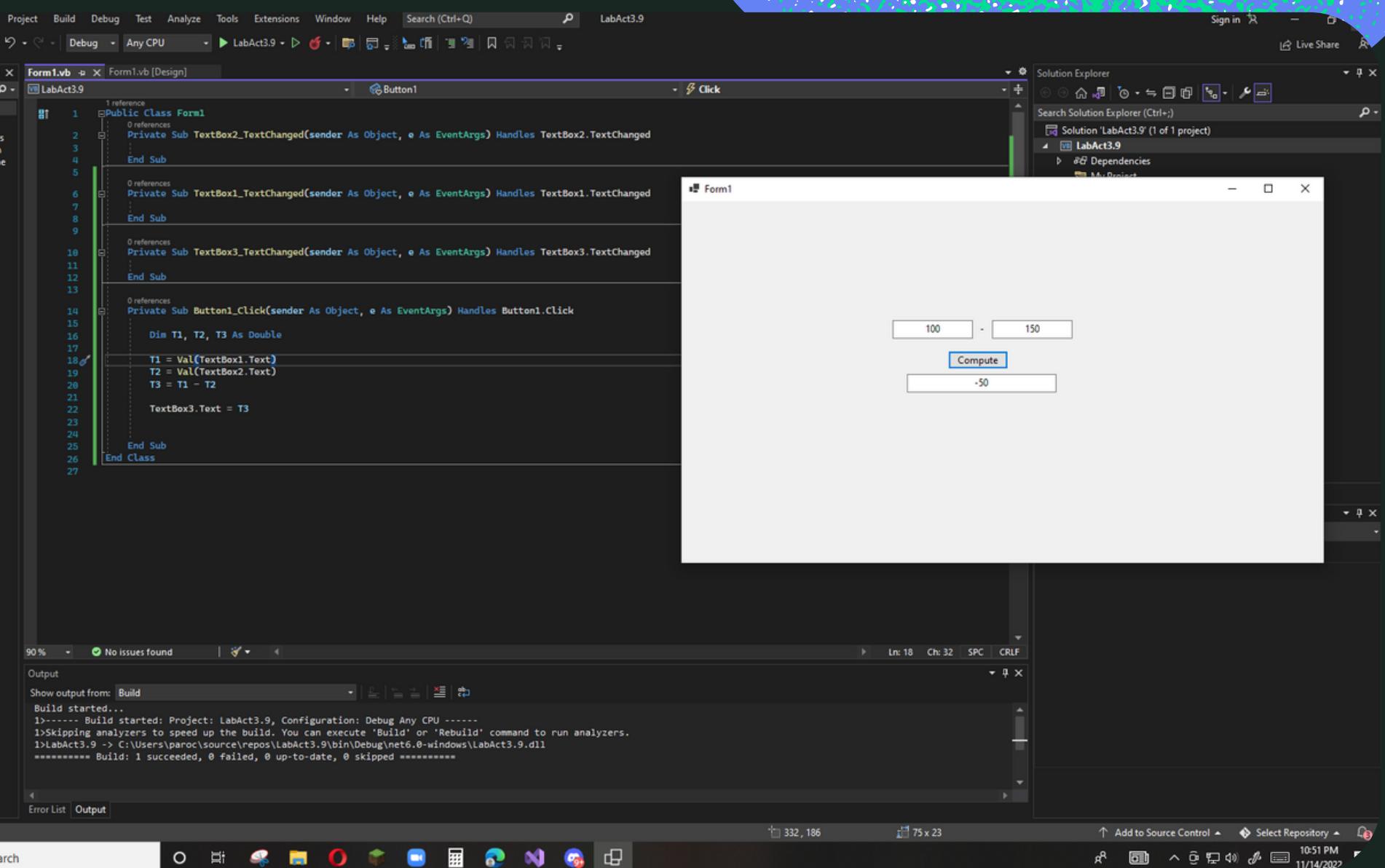
Design and develop a simple Text box and Option buttons application system that when the user clicks one of the three option buttons, it will indicate in the Text box on which option button the user had clicked. For example if option button 2 was clicked by the user, it will display “Option button 2 is clicked!” at the Message box. It will do the same with Option button 1 and Option button 3. Follow the given figure below in designing and developing the application system. Apply the Dim variable declaration.



Example #29

Subtraction using Dim Variable Declaration

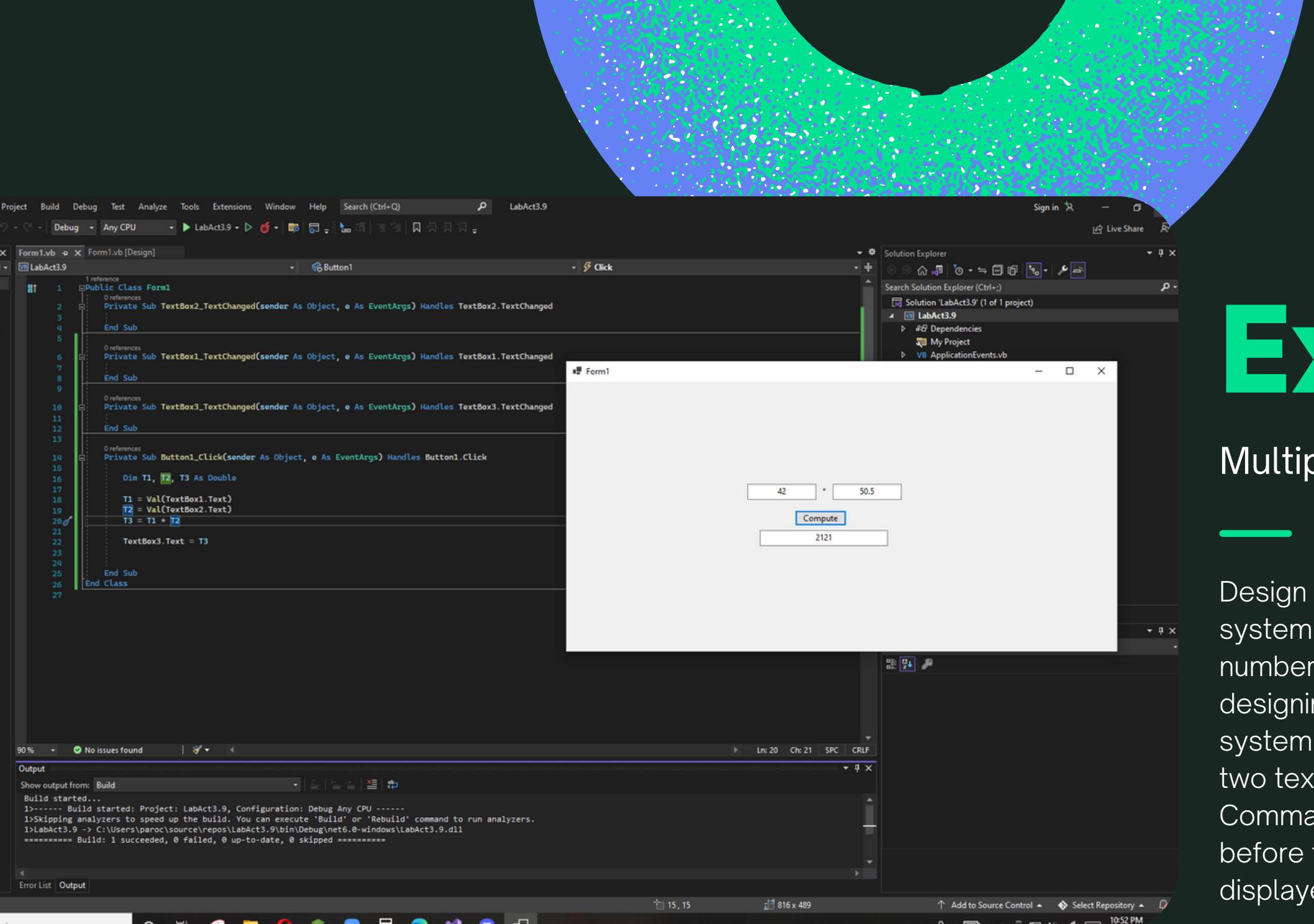
Design and develop a simple application system that calculates the difference of two input numbers. Follow the given figure below in designing and developing the application system. When the user enters two numbers in two text boxes, the user should click the Command button (with a Compute caption) before the resulting computed value will be displayed at the third box (Text box 3).



Example #30

Multiplication using Dim Variable Declaration

Design and develop a simple application system that calculates the product of two input numbers. Follow the given figure below in designing and developing the application system. When the user enters two numbers in two text boxes, the user should click the Command button (with a Compute caption) before the resulting computed value will be displayed at the third box (Text box 3).



Example #31

Division using Dim Variable Declaration

Design and develop a simple application system that calculates the quotient of two input numbers. Follow the given figure below in designing and developing the application system. When the user enters two numbers in two text boxes, the user should click the Command button (with a Compute caption) before the resulting computed value will be displayed at the third box (Text box 3).

