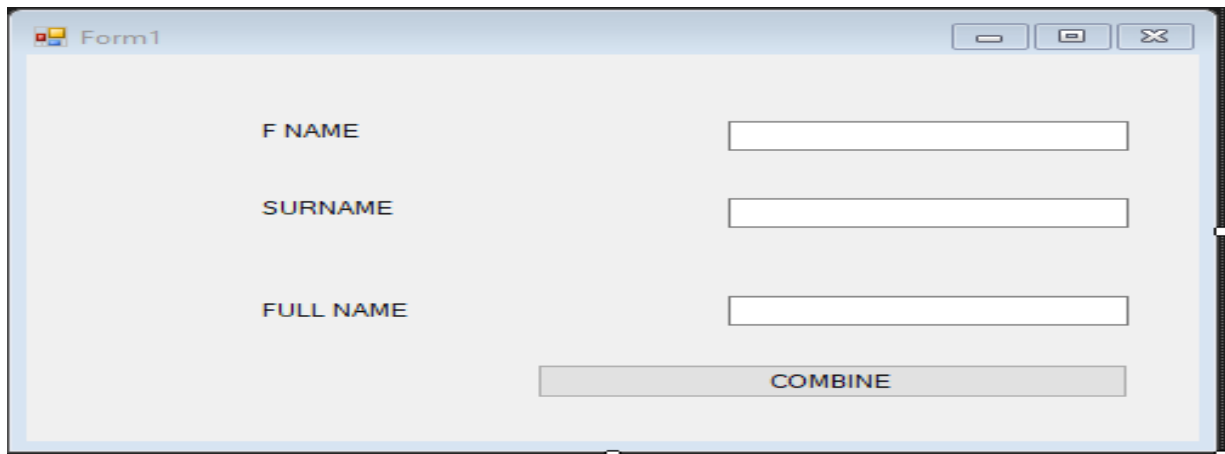


Vb.Net PRACTICAL SAMPLE QUESTIONS

**all questions in this hand out are answered using visual basic dot net*

- 1) Write a programme that accepts the first name and surname and then display the full name of the person. Print code and interface. [10]

A screenshot of a Visual Basic form titled "Form1". The form has a light gray background and a standard Windows window border with minimize, maximize, and close buttons. It contains three text boxes arranged vertically. The first text box is labeled "F NAME" and is empty. The second text box is labeled "SURNAME" and is empty. The third text box is labeled "FULL NAME" and is empty. Below the "FULL NAME" text box is a button labeled "COMBINE".

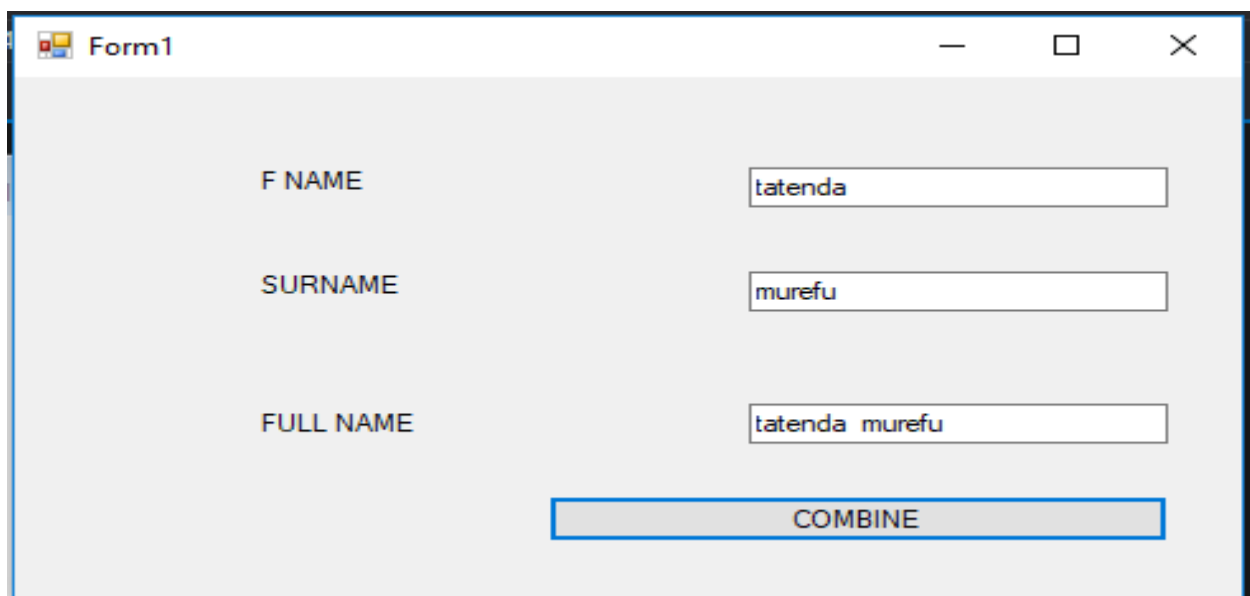
```
Public Class Form1
```

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
```

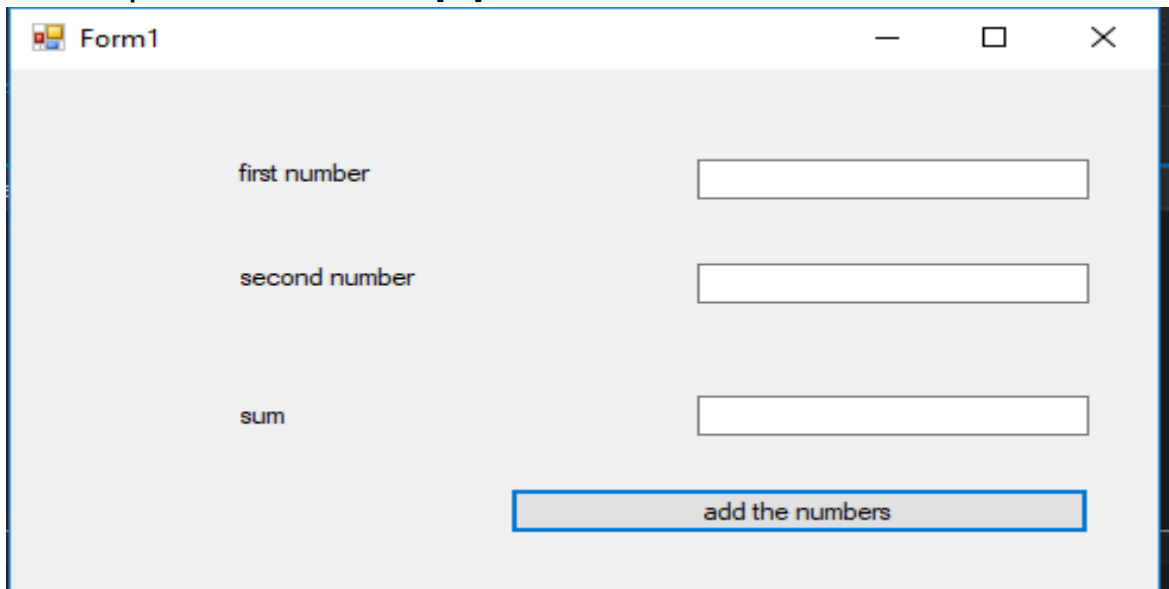
```
    TextBox3.Text = TextBox1.Text + " " + TextBox2.Text
```

```
End Sub
```

```
End Class
```

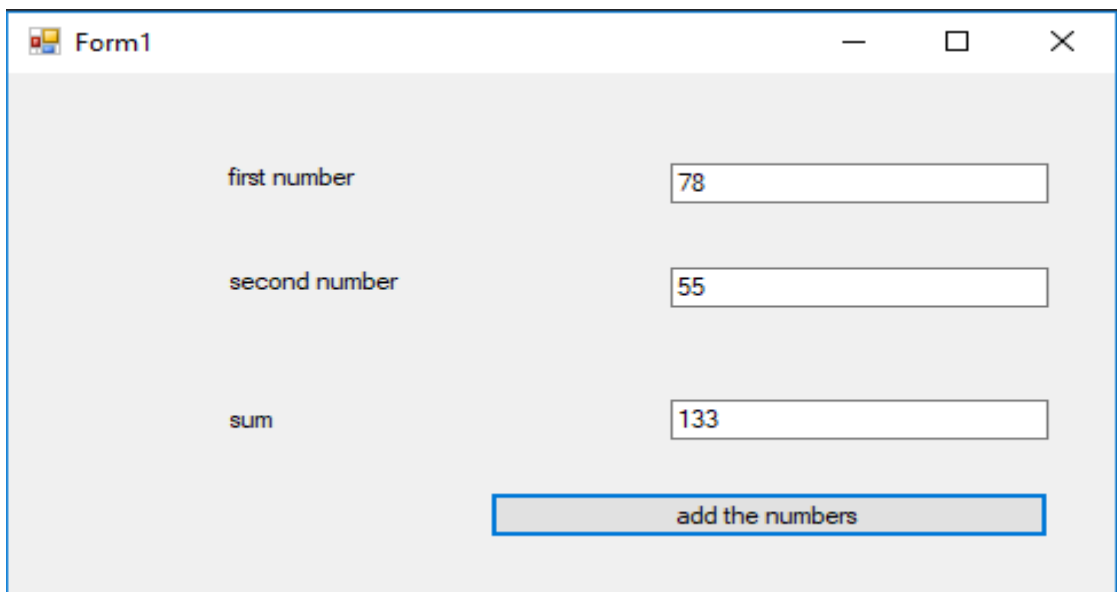
A screenshot of the same Visual Basic form titled "Form1" after data entry. The "F NAME" text box now contains the text "tatenda". The "SURNAME" text box now contains the text "murefu". The "FULL NAME" text box now contains the text "tatenda murefu". The "COMBINE" button is highlighted with a blue border, indicating it was the last active element.

- 2) Write a programme that accepts two integer numbers and display the sum of those two numbers. print code and interface [15]

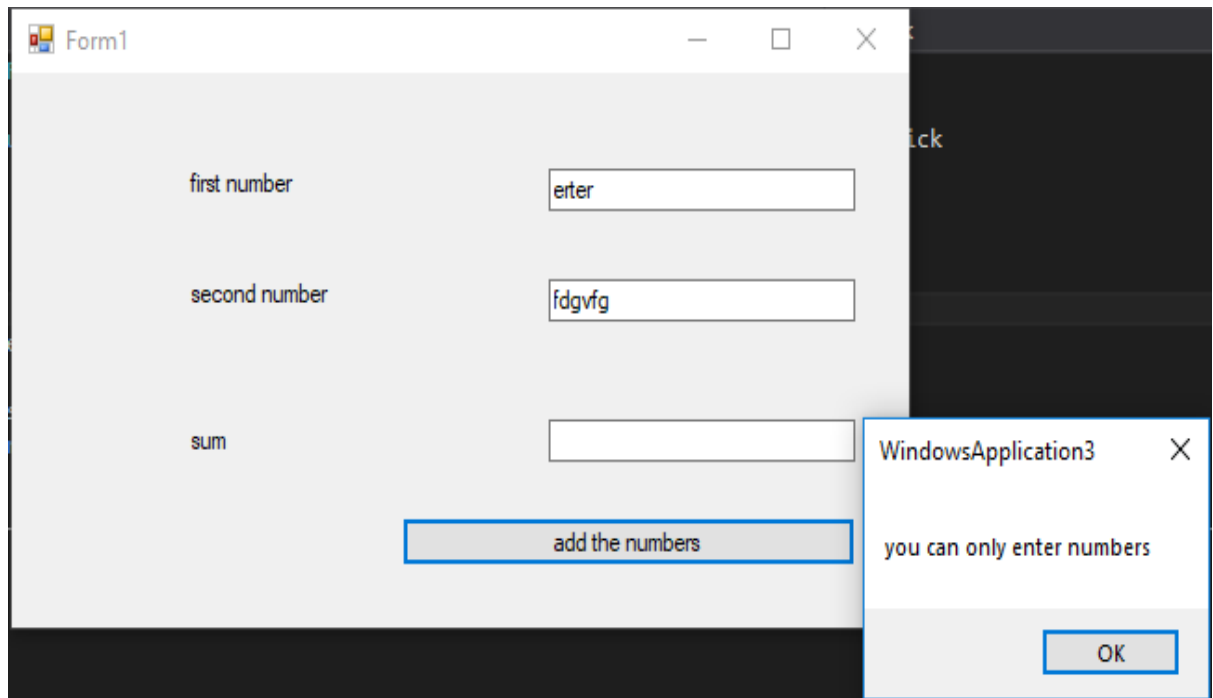
A screenshot of a Windows application window titled "Form1". The window has a standard Windows title bar with minimize, maximize, and close buttons. The main area of the form is light gray. It contains three text boxes arranged vertically. The first text box is labeled "first number" to its left. The second text box is labeled "second number" to its left. The third text box is labeled "sum" to its left. Below these text boxes, centered horizontally, is a button with the text "add the numbers".

Public Class Form1

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim a As Integer
    Dim b As Integer
    a = TextBox1.Text
    b = TextBox2.Text
    TextBox3.Text = a + b
End Sub
End Class
```

A screenshot of the same Windows application window titled "Form1" after it has been executed. The text boxes now contain numerical values: the "first number" box contains "78", the "second number" box contains "55", and the "sum" box contains "133". The "add the numbers" button remains at the bottom.

- 3) Re write the question above so that if someone enters a letter in place of a number, an error message will be displayed. Print code and interface [15]



Public Class Form1

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

Dim a As Integer

Dim b As Integer

Try

a = TextBox1.Text

b = TextBox2.Text

TextBox3.Text = a + b

Catch ex As Exception

MsgBox("you can only enter numbers")

End Try

End Sub

End Class

- 4) Write a programme that generates random numbers and display them in a text box. Print code and interface [10]

Public Class Form1

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim randomnumber As New Random
    TextBox1.Text = randomnumber.Next
```

```
End Sub
```

```
End Class
```

- 5) Write a programme that generates random numbers between 1 and 10 and then display them in a text box. Print code and interface [15]

Public Class Form1

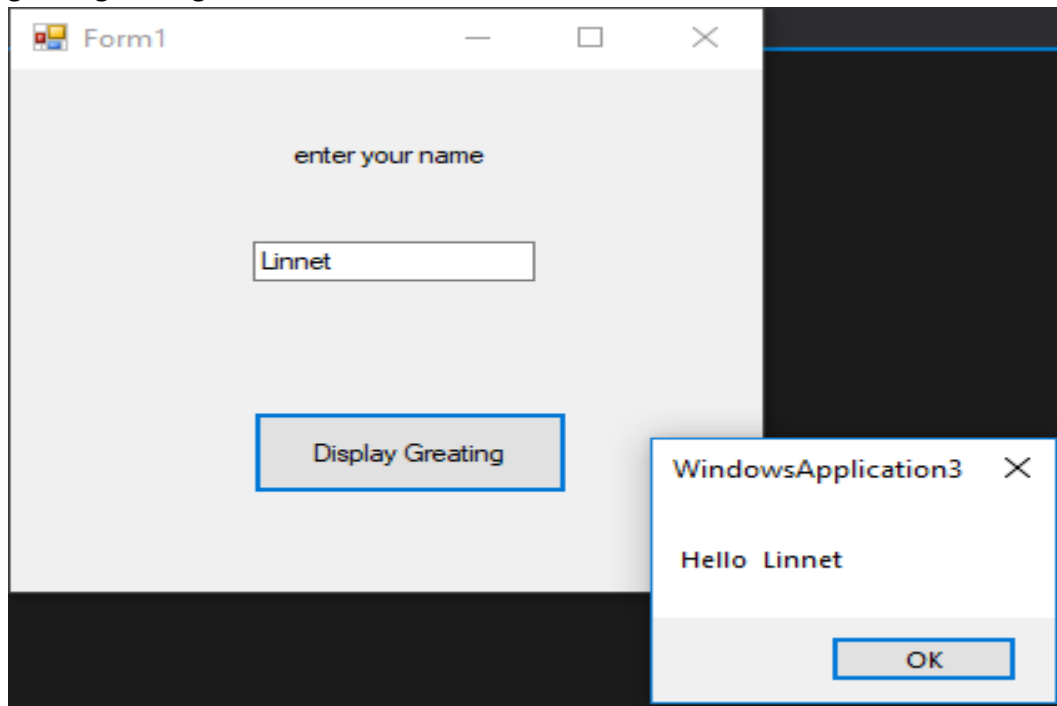
```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim randomnumber As New Random
```

TextBox1.Text = randomnumber.Next(1, 10)

End Sub

End Class

- 6) Write a programme that prompts a user to enter his or her first name and display a greeting message such as "Hello Charlotte"



Public Class Form1

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    MsgBox("Hello" + " " + TextBox1.Text)
```

End Sub

End Class

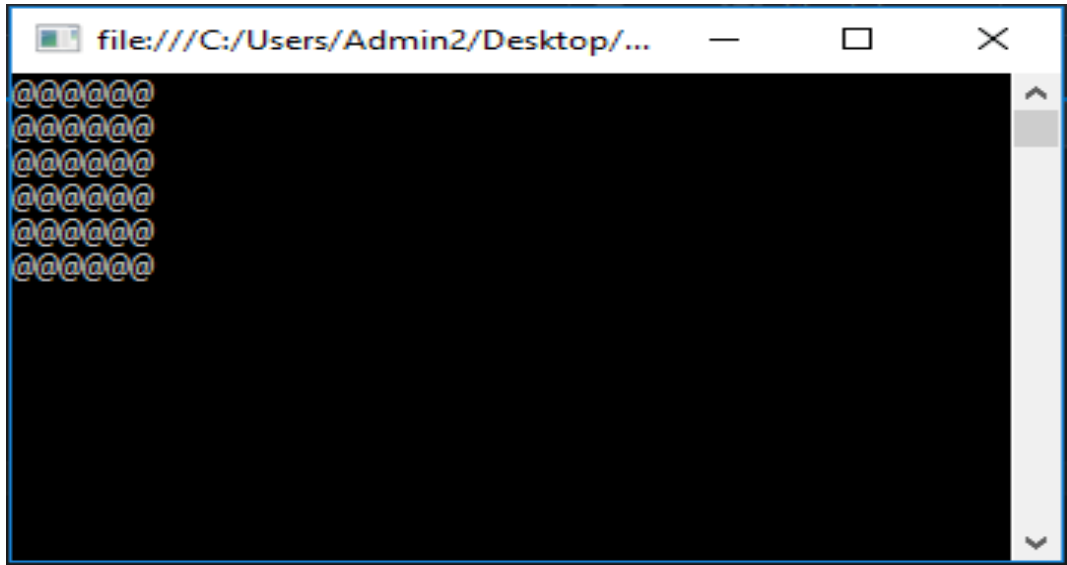
- 7) (a) Write a programme to display the following pattern and print your output and code [10]

```
@@@@@
@@@@@
@@@@@
@@@@@
@@@@@
@@@@@
```

- (b) Modify the code so that it prints the pattern as follows. [5]

```
@
@@
@@@
@@@@
@@@@@
```

(a)

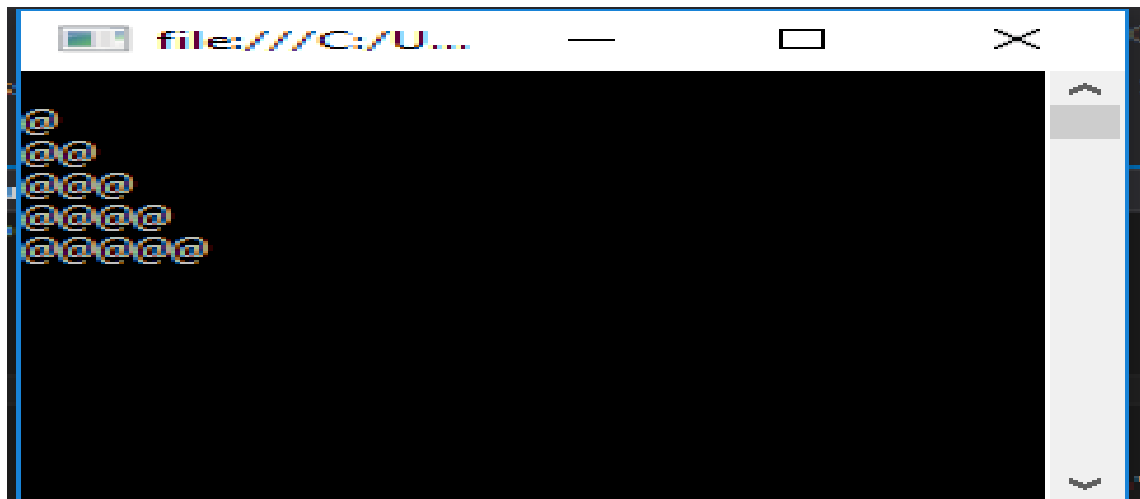


Module Module1

```
Sub Main ()  
    Dim row As Integer  
    Dim column As Integer  
    For row = 1 To 6  
        For column = 1 To 6  
            Console.Write("@")  
        Next  
        Console.WriteLine()  
    Next  
    Console.Read()  
End Sub
```

End Module

(b)



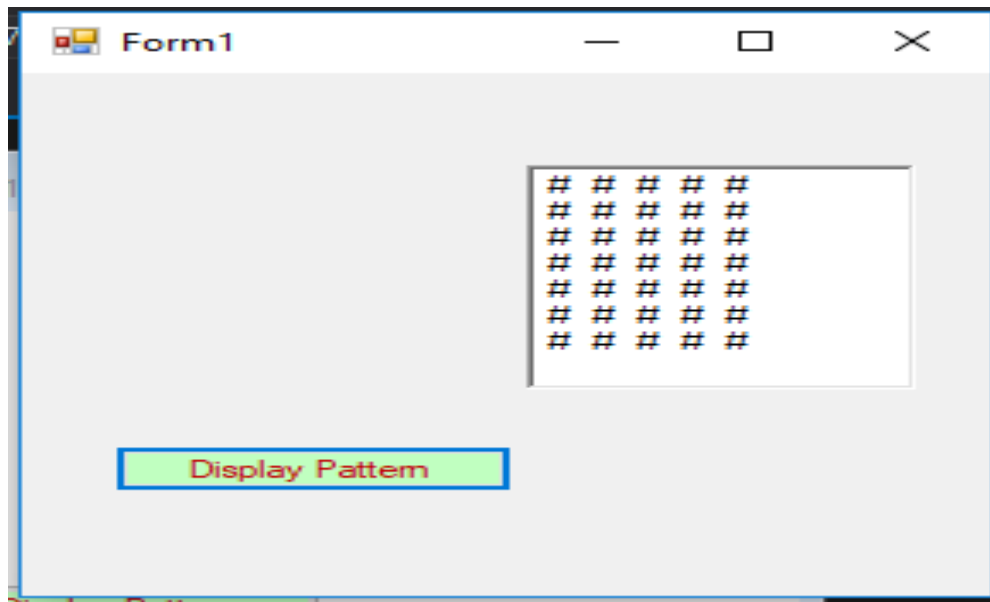
Module Module1

```
Sub Main()  
    Dim row As Integer  
    Dim column As Integer  
    For row = 1 To 6  
        For column = 1 To 6  
            If row > column Then  
                Console.Write("@")  
            Else  
                Console.Write("")  
            End If  
        Next  
        Console.WriteLine()  
    Next  
    Console.Read()  
End Sub
```

End Module

- 8) Write a programme that displays the harsh pattern below. Print your code and the form interface [15]

```
#####  
#####  
#####  
#####  
#####  
#####  
#####
```



Public Class Form1

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

Dim column As Integer

Dim row As Integer

For row = 1 To 7

For column = 1 To 5

RichTextBox1.Text += " # "

Next

RichTextBox1.Text += Environment.NewLine()

Next

End Sub

End Class

- 9) Using different controls design a form that captures details of a secondary student to enrolled for form one.

CHELSTONE HIGH SCHOOL

NAME

SURNAME

GENDER ☐ MALE ☐ FEMALE

DATE OF BIRTH

CLASS

GUARDIAN/PARENT DETAILS

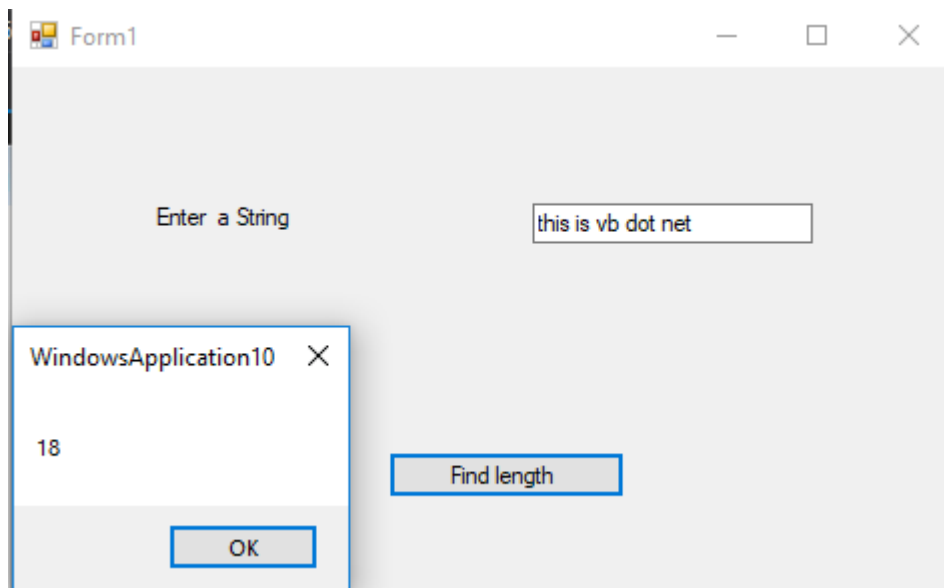
PICTURE

Display Pattern Cancel Save Record

CONTROLS USED

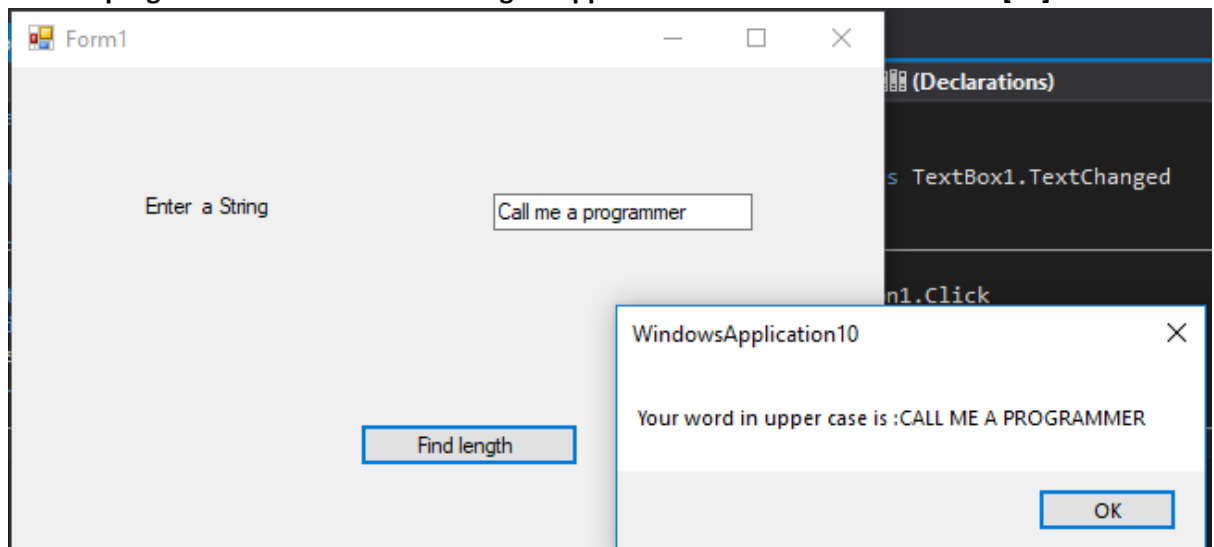
- I. LABEL - chelstone high school
- II. TEXTBOX --- name and surname input
- III. GROUP BOX -- gender details
- IV. RADIO BUTTONS --- male and female
- V. COMBO BOX --- class
- VI. DATE TIME PICKER --date of birth
- VII. PICYUTR BOX --- picture
- VIII. BUTTONS --cancel, enter and save record buttons
- IX. RICH TEXT BOX – guardian /parent details
- X. PANEL – green form borders

10) Write a programme to calculate the length of a string passed to it and display the length as an integer number. Print code and interface. [15]



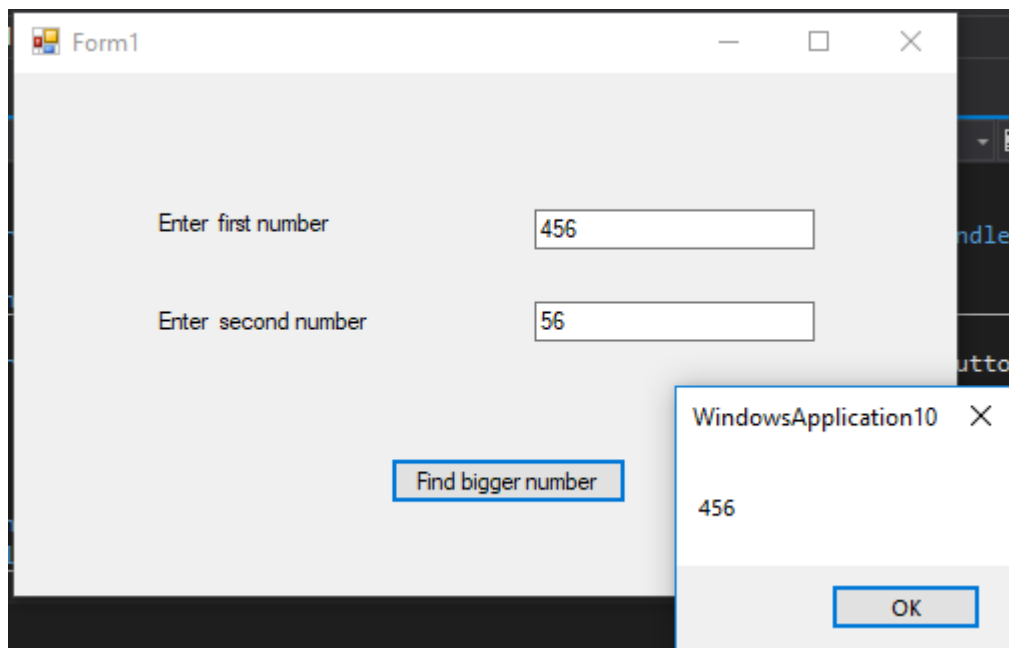
```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim word As String = TextBox1.Text
    MsgBox(Len(word))
End Sub
End Class
```

11) Write a programme that converts a string to Upper case. Print code and interface [10]



```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim word As String = TextBox1.Text
    MsgBox("Your word in upper case is :" + UCase(word))
End Sub
End Class
```

12) Create a function in called "max" accepts two integer values and return the bigger of the two numbers. Print code and interface [15].



Private Function max(ByVal x As Integer, ByVal y As Integer) As Double ' max is the name of the function, x and y are parameters

```

    If x > y Then
        Return x
    Else
        Return y
    End If
End Function
Private Sub TextBox1_TextChanged(sender As Object, e As EventArgs) Handles
    TextBox1.TextChanged
End Sub
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Dim a As Integer = TextBox1.Text ' assigning textbox one text to a
    Dim b As Integer = TextBox2.Text
    Dim outcome As Double = max(a, b) ' passing a and b into the finction called max
    declared above
    MsgBox(outcome)
End Sub
End Class

```

- 13) (a) Identify errors in the following visual basic code meant to add three numbers and store the result it in sum [8]

```

Dim Number as integer
Dim Numberthree as integer
Dim Number two as integer
Dim Numberfour as integer
    Numberthree =6
    Num =1
    Numbertwo = 9
Dim sum as string = Number + Numbertwo +Numberthree

```

Textbox1.text = sum

(b) Suggest solutions to these errors

SOLUTION

- (a) -“Number two” is not a Proper variable name. spacing is not allowed
 - Num is an undeclared variable
 - String data type on “sum” will make it impossible to store the numerical sum
 - “Numberfour” is declared but not initialised
- (b) -“Number two” should be written as “Numbertwo”
 - Change” num” to “Number”
 - Change data type on “sum” to integer or double
 - Delete numberfour since it is not used in the programme.

14)