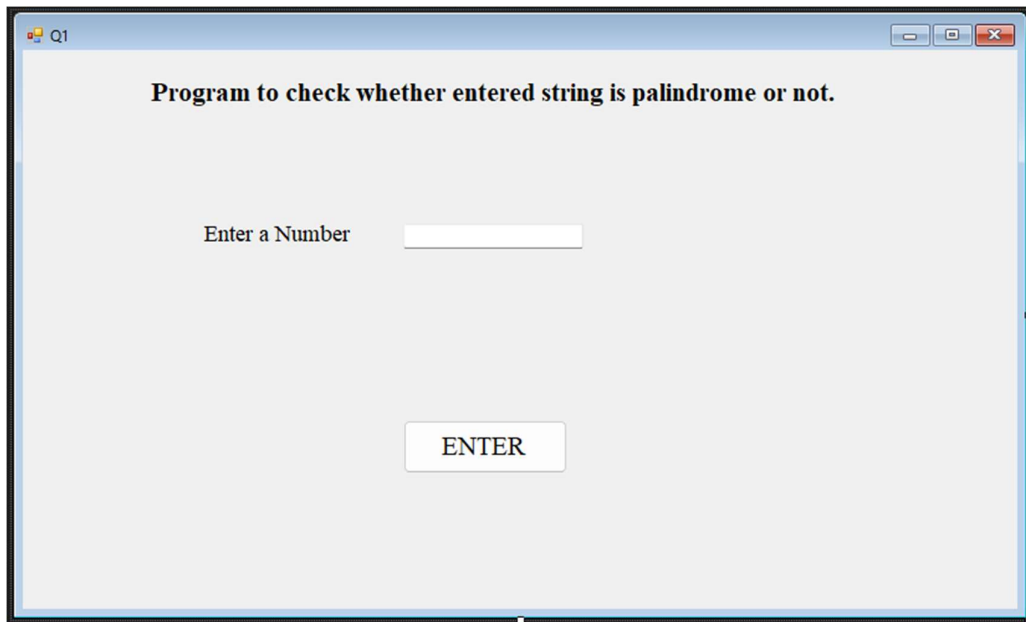


.NET JOURNAL PROGRAMS

Q1. Write a Vb.net program to check whether entered string is palindrome or not.



Public Class Q1

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

Dim str1 As String

str1 = TextBox1.Text

If str1 = StrReverse(str1) Then

MsgBox("String is palindrome")

Else

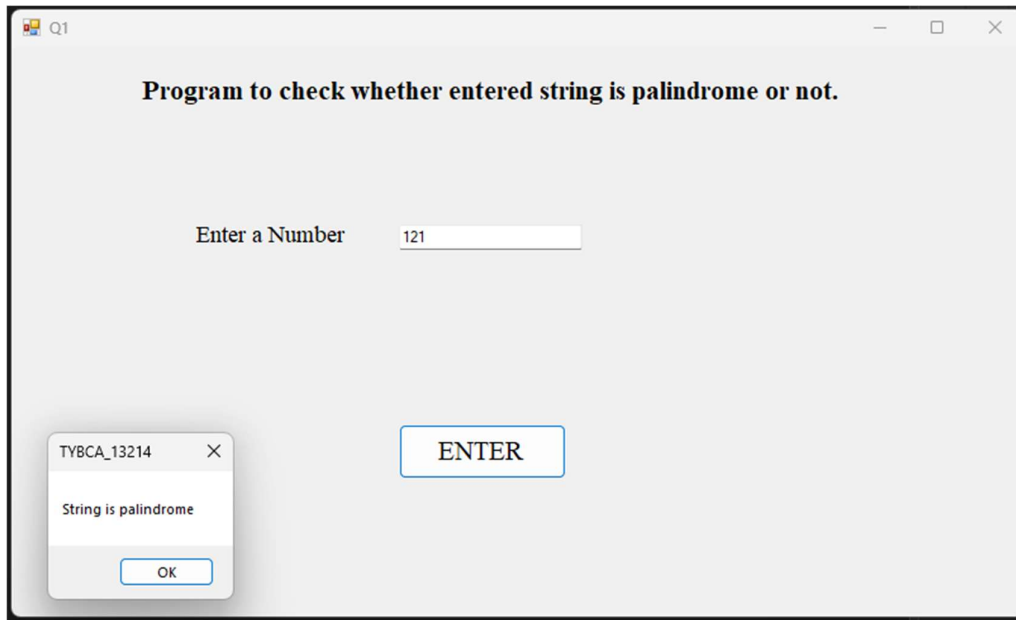
MsgBox("String is not palindrome")

End If

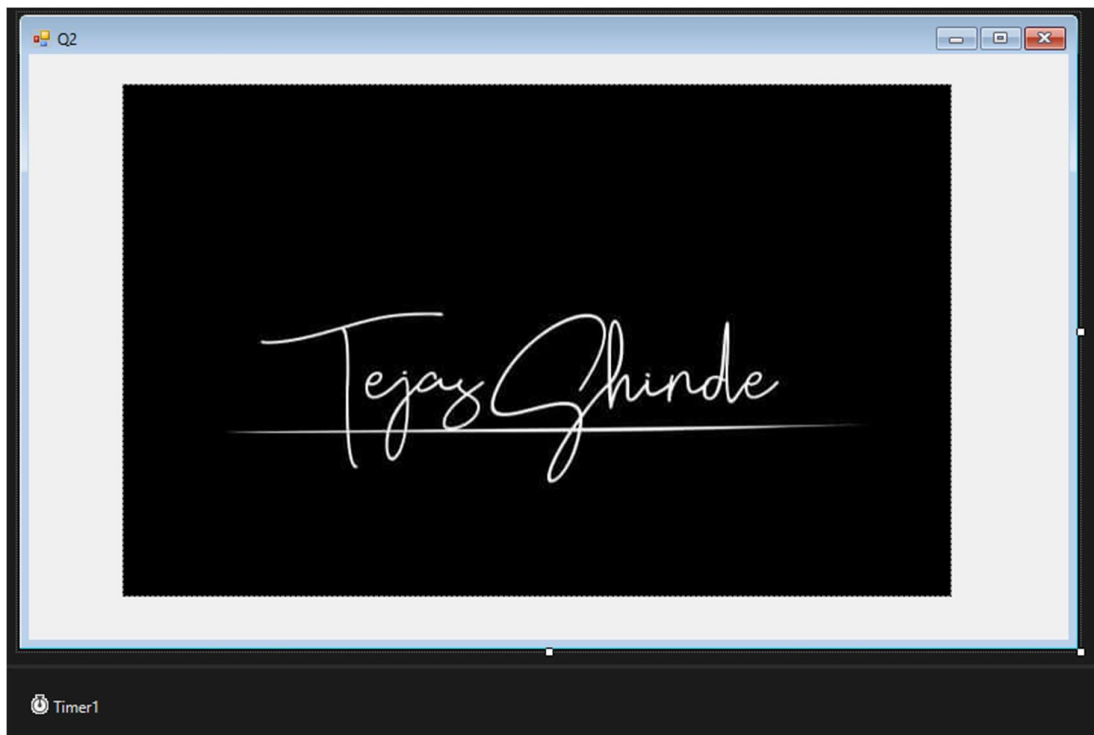
End Sub

End Class

OUTPUT: -



Q2. Write a Vb.net program for blinking an image.



Public Class Q2

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

```
If PictureBox1.Visible = Visible Then
```

```
    PictureBox1.Visible = False
```

```
Else
```

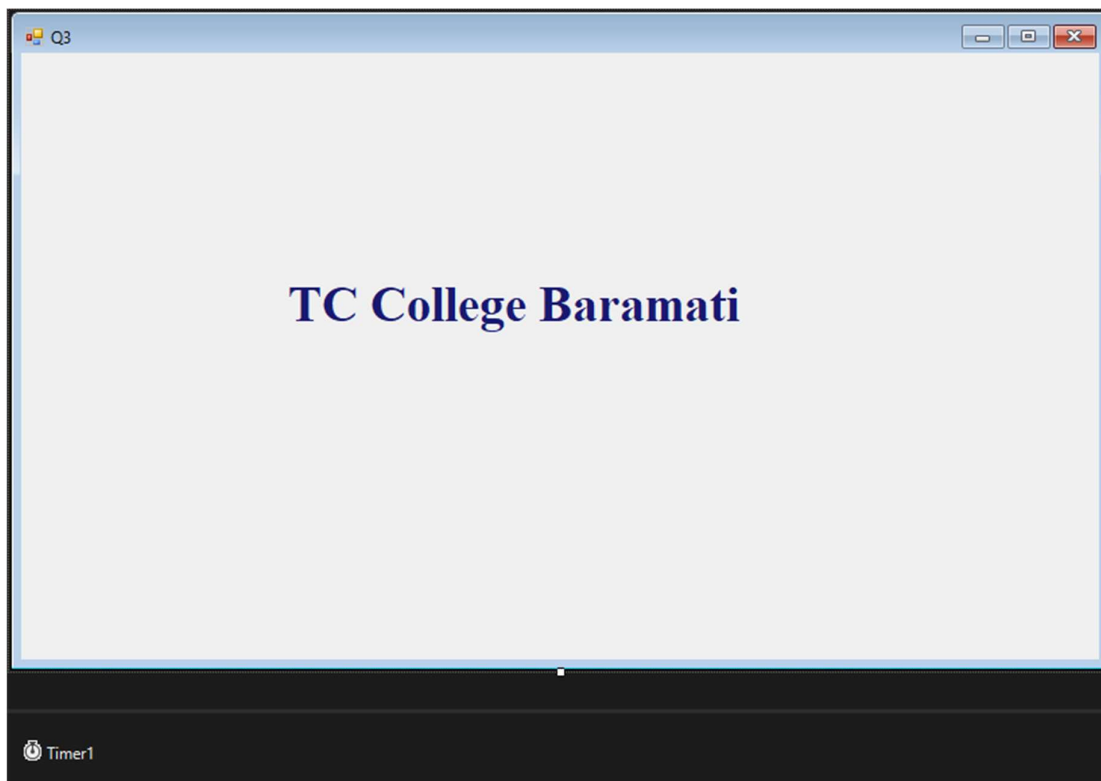
```
    PictureBox1.Visible = True
```

```
End If
```

```
End Sub
```

```
End Class
```

Q3. Write a Vb.Net program to move the Text “TC College” continuously from Left to Right.



```
Public Class Q3
```

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

```
        Label1.Left = Label1.Left + 10
```

```
        If Label1.Left >= Me.Right Then
```

```
Label1.Left = Me.Left
```

```
End If
```

```
End Sub
```

```
End Class
```

Q4. Write a Vb.net program to accept a number from an user through InputBox and display its multiplication table into the ListBox.



```
Public Class Q4
```

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

```
Dim n As Integer
```

```
ListBox1.Items.Clear()
```

```
n = CInt(InputBox("Enter number: "))
```

```
For i = 1 To 10
```

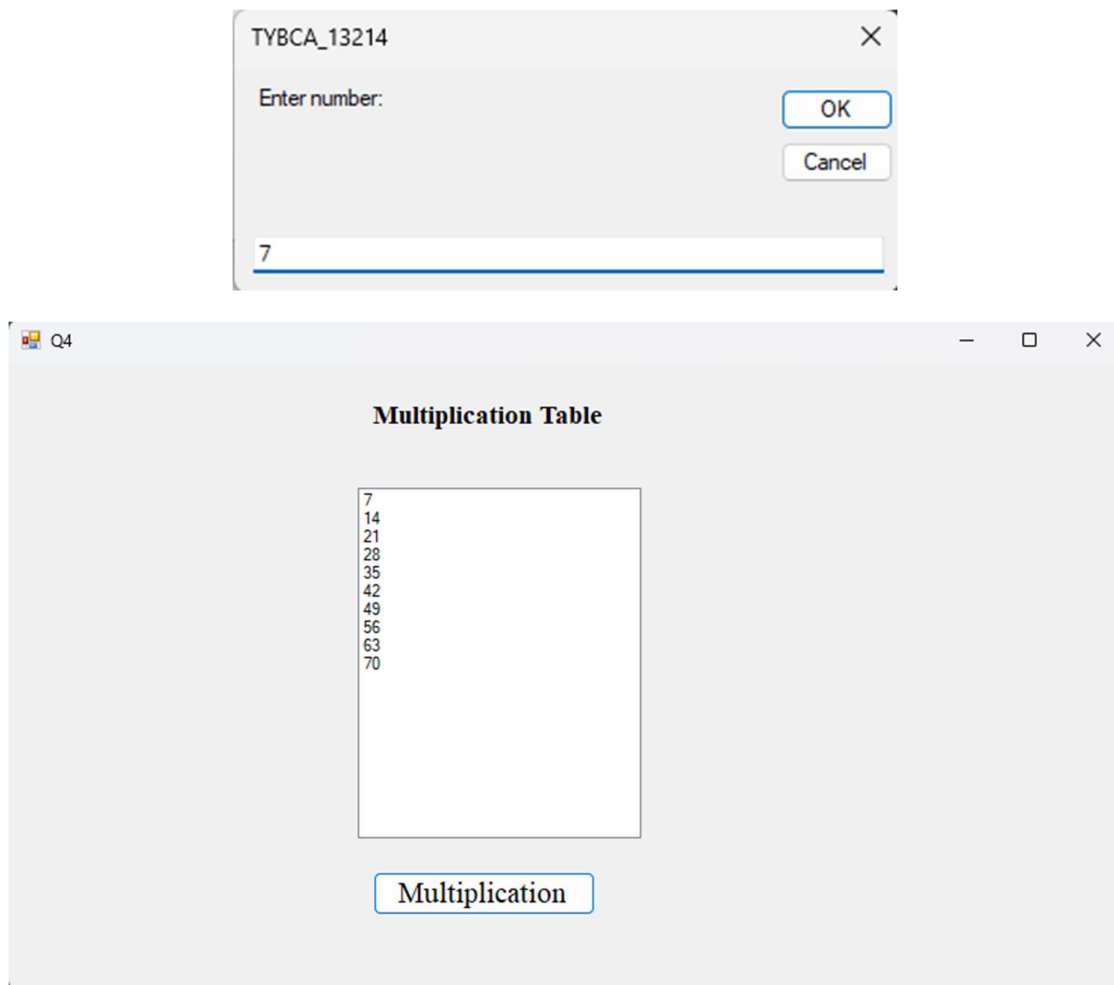
```
ListBox1.Items.Add(n * i)
```

```
Next
```

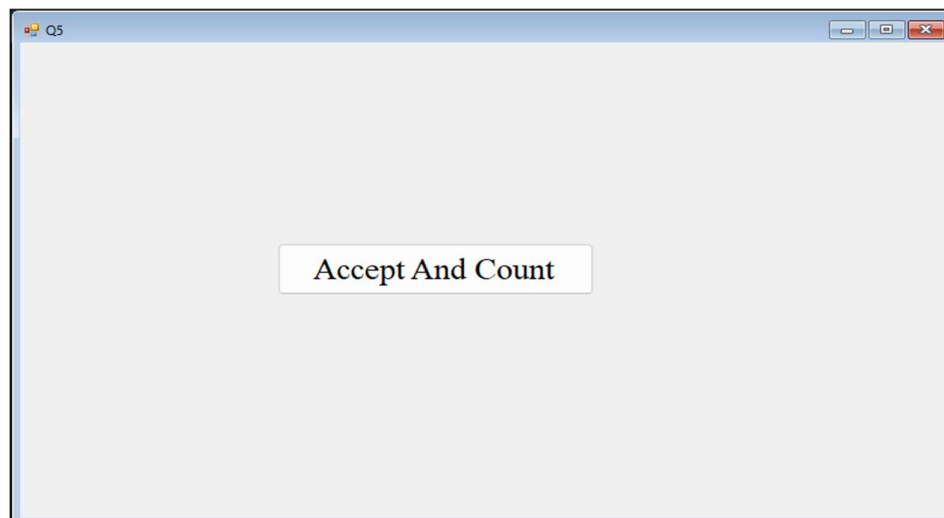
```
End Sub
```

```
End Class
```

OUTPUT: -



Q5. Write a Vb.net program to accept n numbers through InputBox and count the number of Armstrong and Perfect numbers among them and display their count by using messagebox



Public Class Q5

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

Dim n As Integer

Dim a(10) As Integer

Dim prime As Integer

Dim remainder, sum, copy As Integer

Dim c, cn As Integer

n = InputBox("Enter how many number: ")

For i As Integer = 0 To n - 1

 a(i) = InputBox("Enter Element:- ", i)

Next

prime = 0

For i As Integer = 0 To n - 1

 For j As Integer = 2 To a(i) / 2

 If a(i) Mod j = 0 Then

 prime = 1

 Exit For

 End If

Next

If prime = 0 Then

 c = c + 1

End If

copy = a(i)

sum = 0

While a(i) > 0

 remainder = a(i) Mod 10

 sum = (remainder * remainder * remainder) + sum

 a(i) = a(i) \ 10

End While

If copy = sum Then

cn = cn + 1

End If

prime = 0

Next

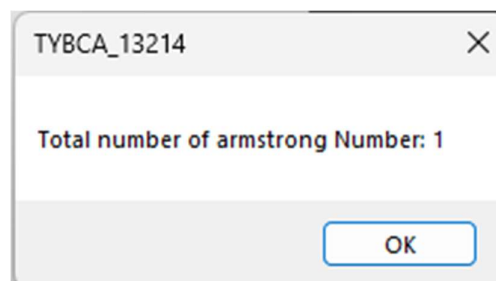
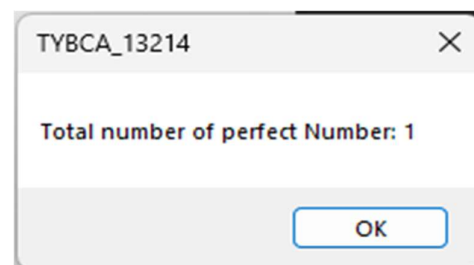

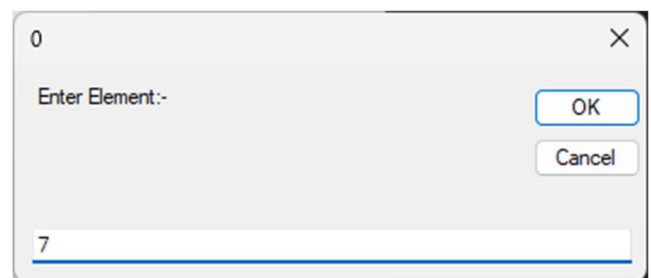
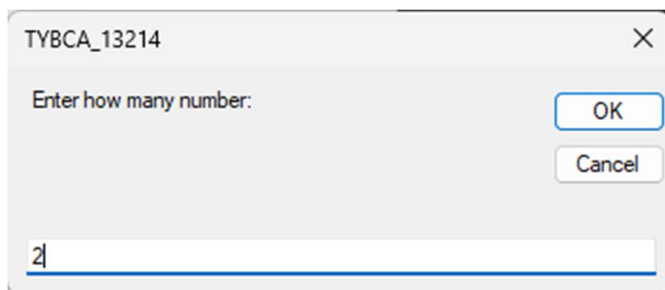
MsgBox("Total number of perfect Number: " + CStr(c))

MsgBox("Total number of armstrong Number: " + CStr(cn))

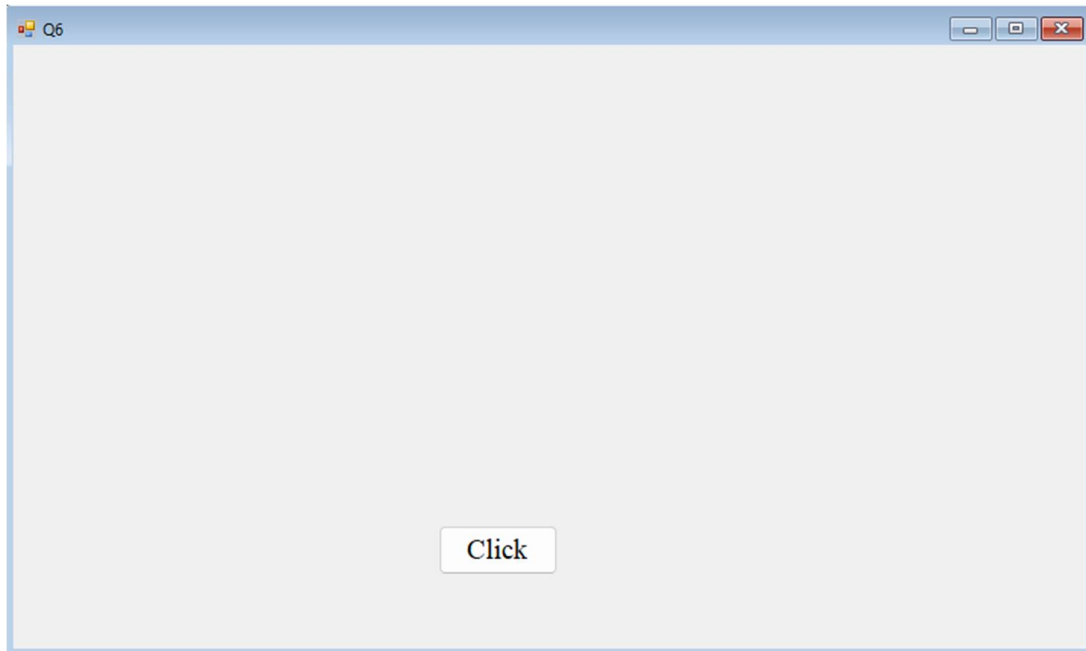
End Sub

End Class

Output: -



Q6. Write a Vb.net program to add two TextBoxes, two Labels and one button at runtime. Accept two numbers in textboxes and handle DivideByZeroException.



Public Class Q6

```
Dim t1 As New TextBox
```

```
Dim t2 As New TextBox
```

```
Dim l1 As New Label
```

```
Dim l2 As New Label
```

```
Dim b1 As New Button
```

```
Dim n As Integer
```

```
Private Sub Q6_Load(sender As Object, e As EventArgs) Handles MyBase.Load
```

```
    l1.Top = 100
```

```
    l1.Left = 100
```

```
    l1.Text = "Enter 1st Number"
```

```
    l1.Visible = True
```

```
    Me.Controls.Add(l1)
```

```
    l2.Text = "Enter 2nd Number"
```

```
    l2.Top = 100
```


l2.Left = 300

l2.Visible = True

Me.Controls.Add(l2)

t1.Top = 125

t1.Left = 100

t1.Visible = True

Me.Controls.Add(t1)

t2.Top = 125

t2.Left = 300

t2.Visible = True

Me.Controls.Add(t2)

b1.Text = "Divide"

b1.Top = 190

b1.Left = 220

b1.Visible = True

Me.Controls.Add(b1)

AddHandler Button1.Click, AddressOf Button1_Click_1

End Sub

Private Sub Button1_Click_1(sender As Object, e As EventArgs)

Try

n = CInt(t1.Text) \ CInt(t2.Text)

MsgBox(n)

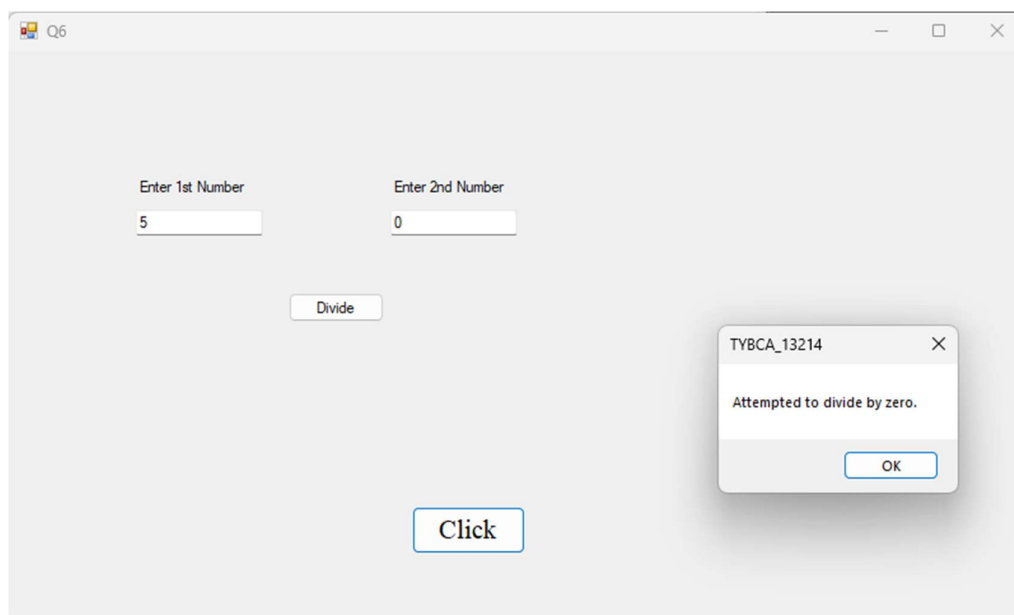
Catch ex As DivideByZeroException

MsgBox(ex.Message)

End Try

End Sub

Output: -



Q7. Write a Vb.net program to design following screen, accept the details from the user. Clicking on Submit button Net Salary should be calculated and displayed into the TextBox. Display the MessageBox informing the Name and Net Salary of employee.

Employee Profile

Name

Basic Salary

DA

HRA

MA

PF

PT

IT

Net Salary

Public Class Q7

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

Dim cal, tax, bs, da, hra, ma, pf, pt, it As Integer

bs = CInt(TextBox2.Text)

da = CInt(TextBox3.Text)

hra = CInt(TextBox4.Text)

ma = CInt(TextBox5.Text)

pf = CInt(TextBox6.Text)

pt = CInt(TextBox7.Text)

it = CInt(TextBox8.Text)

cal = bs + ((da * bs) / 100) + ((hra * bs) / 100) + ((ma * bs) / 100)

tax = ((pt * bs) / 100) + ((it * bs) / 100) + ((pf * bs) / 100)

cal = cal - tax

TextBox9.Text = cal

MsgBox("Name: " + TextBox1.Text + " Net salary: " + TextBox9.Text)

End Sub

End Class

Output: -

The screenshot shows a Windows application window titled 'Employee Profile'. It contains a form with the following fields and values:

Field	Value
Name	TEJAS SHINDE
Basic Salary	10000
DA	2
HRA	1
MA	2
PF	3
PT	1
IT	2
Net Salary	9900

A 'Submit' button is located below the input fields. A message box titled 'TYBCA_13214' is displayed in the foreground, showing the text: 'Name: TEJAS SHINDE Net salary: 9900'. The message box has an 'OK' button.

Q8. Write a Vb.net program to accept number from user into the TextBox. Calculate the square root of that number also convert the entered number into binary number and display result into the Message Box

The screenshot shows a Windows application window titled 'Q8'. It contains a form with the following elements:

- A label 'Enter No' followed by a text box.
- A 'Calculate' button.

Public Class Q8

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

Dim n As Integer

Dim sqr As Double

Dim rm As Integer

Dim str1 As String

n = CInt(TextBox1.Text)

sqr = Math.Sqrt(n)

While n

rm = n Mod 2

str1 = str1 & rm

n = n / 2

End While

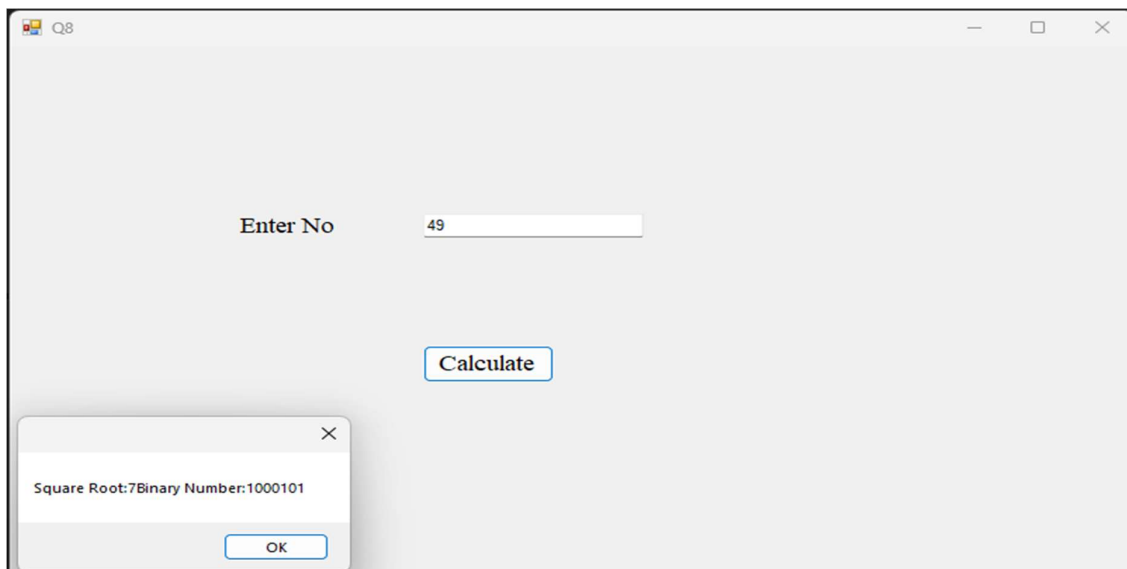
MessageBox.Show("Square Root:" & sqr & "Binary Number:" & str1)

StrReverse(str1)

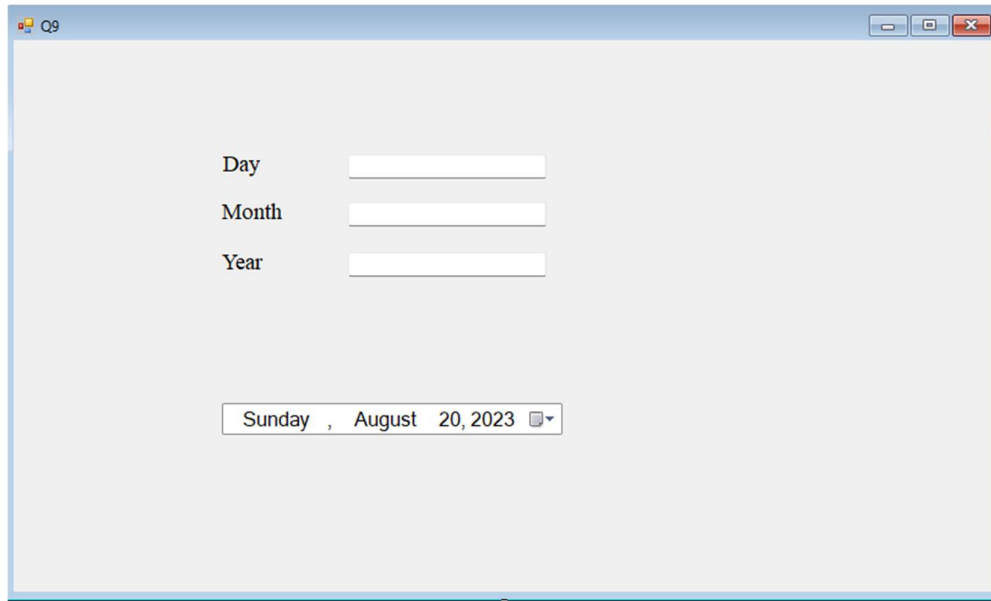
End Sub

End Class

Output: -



Q9. Design a Vb.net form to pick a date from DateTimePicker Control and display day, month and year in separate text boxes.



The screenshot shows a Windows form titled "Q9". Inside the form, there are three labels: "Day", "Month", and "Year", each followed by an empty text box. Below these, there is a DateTimePicker control displaying "Sunday, August 20, 2023".

Public Class Q9

Private Sub DateTimePicker1_ValueChanged(sender As Object, e As EventArgs) Handles DateTimePicker1.ValueChanged

TextBox1.Text = DateTimePicker1.Value.Day

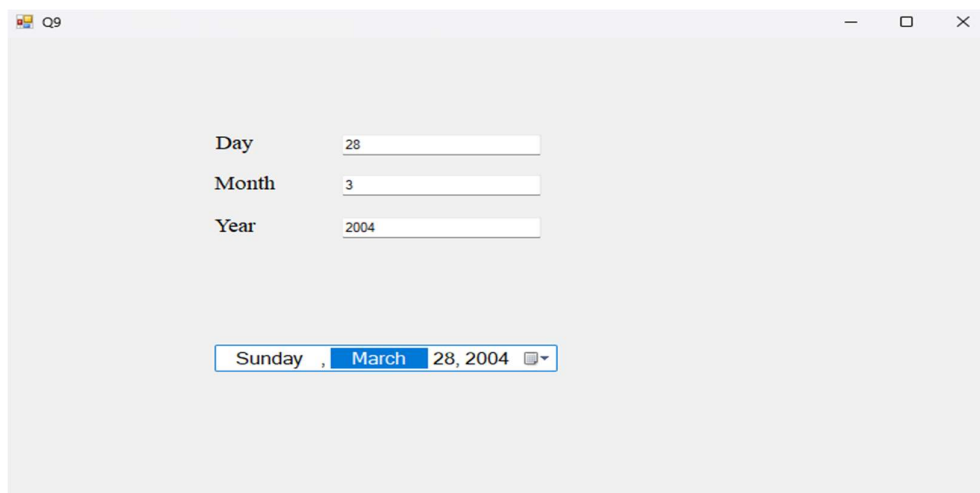
TextBox2.Text = DateTimePicker1.Value.Month

TextBox3.Text = DateTimePicker1.Value.Year

End Sub

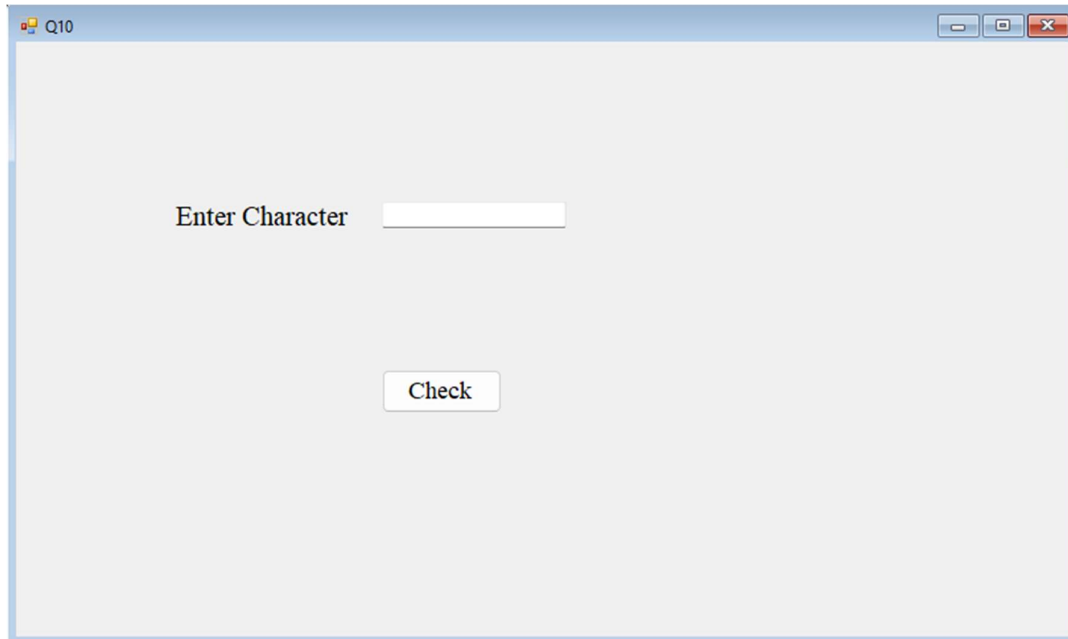
End Class

Output: -



The screenshot shows the same form as before, but now the text boxes contain values: "Day" is 28, "Month" is 3, and "Year" is 2004. The DateTimePicker control now displays "Sunday, March 28, 2004".

Q10. Write a Vb.net program to accept a character from keyboard and check whether it is vowel or not. Also display the case of that character.



```
Public Class Q10
```

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

```
        Dim ch As Char
```

```
        ch = TextBox1.Text
```

```
        Select Case ch
```

```
            Case "A", "E", "I", "O", "U"
```

```
                MessageBox.Show(ch + " is Vowel And UpperCase")
```

```
            Case "a", "e", "i", "o", "u"
```

```
                MessageBox.Show(ch + " is Vowel And LowerCase")
```

```
            Case Else
```

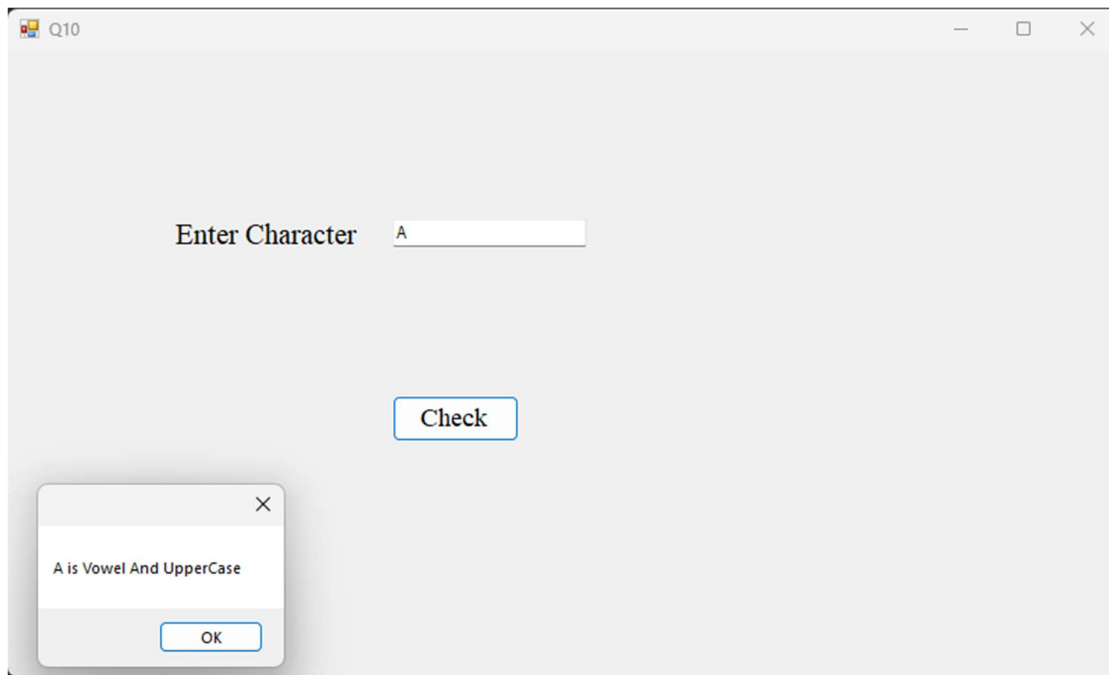
```
                MessageBox.Show(ch + " is Not Vowel")
```

```
        End Select
```

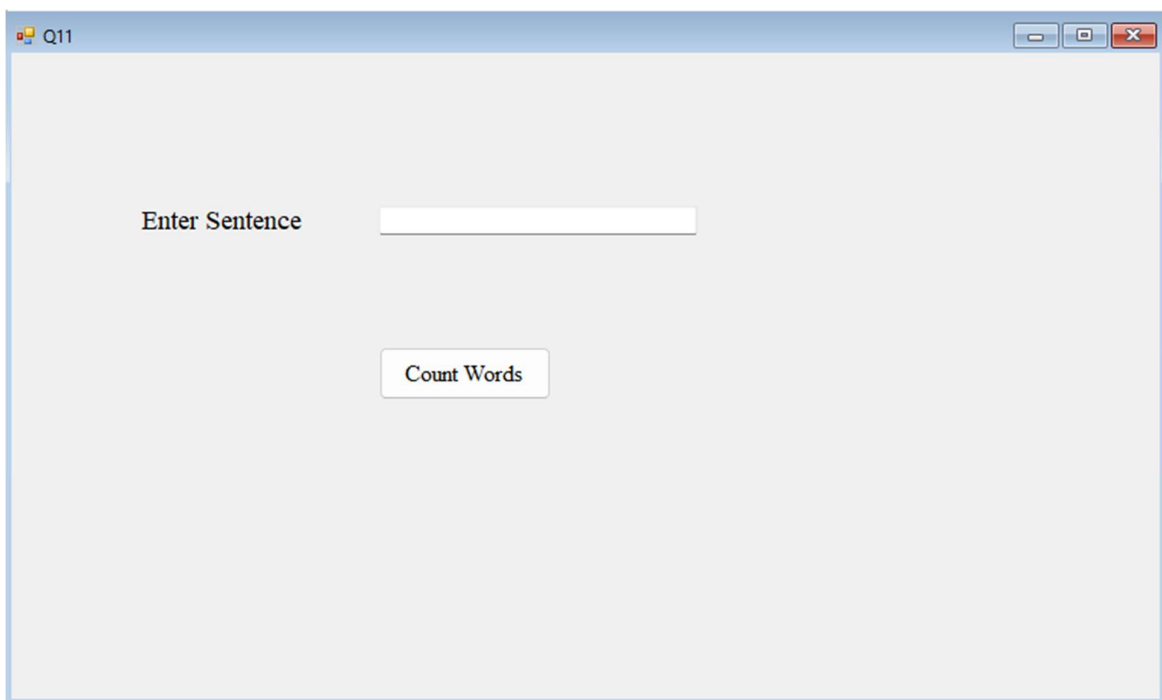
```
    End Sub
```

```
End Class
```

Output: -



Q11. Write a Vb.net program to accept sentences in text box and count the number of words and display the count in message box.



Public Class Q11

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


```
Dim sentence As String
```

```
Dim i As Integer
```

```
Dim wc As Integer
```

```
sentence = TextBox1.Text
```

```
Dim arr() As Char = sentence.ToCharArray
```

```
For i = 0 To arr.Length - 1
```

```
    If arr(i) = " " Then
```

```
        wc = wc + 1
```

```
    End If
```

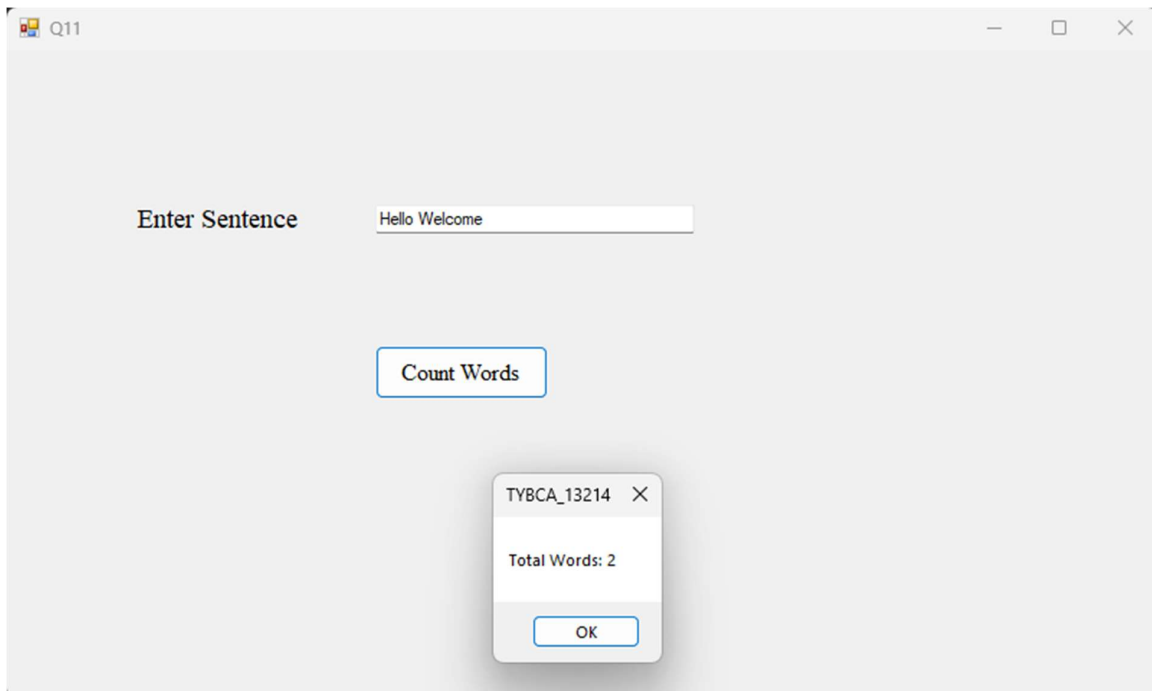
```
Next
```

```
MsgBox("Total Words: " & wc + 1)
```

```
End Sub
```

```
End Class
```

Output: -



Q12. Write a Vb.net program to design the following form, accept the numbers through textbox and add them into the ListBox1 by clicking on Add button. When user click on Prime button then all the prime numbers from ListBox1 should get added into ListBox2.

Public Class Q12

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

ListBox1.Items.Add(CInt(TextBox1.Text))

TextBox1.Text = ""

TextBox1.Focus()

End Sub

Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click

Dim n, i, mm, count, contain As Integer

For i = 0 To ListBox1.Items.Count() - 1

n = ListBox1.Items.Item(i)

count = CInt(n) / 2

mm = 1

For j As Integer = 2 To count

If n Mod j = 0 Then

mm = 0

End If

Next

If mm = 1 Then

 ListBox2.Items.Add(CInt(n))

End If

Next

contain = ListBox1.Items.Count() - 1 ' 4

i = 0

While True

 If contain >= i Then

 n = ListBox1.Items.Item(i)

 count = CInt(n) / 2

 mm = 1

 For j As Integer = 2 To count

 If n Mod j = 0 Then

 mm = 0

 End If

 Next

 If mm = 1 Then

 ListBox1.Items.RemoveAt(i)

 Else

 i = i + 1

 End If

 contain = ListBox1.Items.Count() - 1

Else

 Exit While

End If

End While

End Sub

End Class

Output: -

The screenshot shows a Java Swing window titled "Q12". Inside the window, there is a label "Enter Number" followed by a text input field. To the right of the input field is a button labeled "Add". Below the input field, there are two text areas. The left text area contains the numbers 4, 6, 8, 9, and 10, stacked vertically. The right text area contains the numbers 1, 2, 3, 5, and 7, stacked vertically. Between the two text areas, there is a button labeled "Prime".

Q13. Write a Vb.net program to design the following form, allow the user to select radio buttons from Gender and Age Panel. After Selection appropriate CheckBox from Right Panel should be selected automatically. Display appropriate message into the MessageBox by clicking on Ok button.



Public Class Q13

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

 If TextBox1.Text = "" Then

 MessageBox.Show("Please Enter Name")

 Else

 Dim age As String

 age = ""

 If RadioButton3.Checked Then

 age = "Less Than 18. Can't Drive "

 ElseIf RadioButton4.Checked Then

 age = "Between 18 To 40 . Can Drive"

 ElseIf RadioButton5.Checked Then

 age = "Above 40. All Right "

 End If

 MessageBox.Show("Name : " + TextBox1.Text + " Age : " + age)

End If

End Sub

Private Sub RadioButton3_CheckedChanged(sender As Object, e As EventArgs) Handles
RadioButton3.CheckedChanged

If RadioButton3.Checked Then

 CheckBox2.Checked = True

Else

 CheckBox2.Checked = False

End If

End Sub

Private Sub RadioButton4_CheckedChanged(sender As Object, e As EventArgs) Handles
RadioButton4.CheckedChanged

If RadioButton4.Checked Then

 CheckBox1.Checked = True

Else

 CheckBox1.Checked = False

End If

End Sub

Private Sub RadioButton5_CheckedChanged(sender As Object, e As EventArgs) Handles
RadioButton5.CheckedChanged

If RadioButton5.Checked Then

 CheckBox3.Checked = True

Else

 CheckBox3.Checked = False

End If

End Sub

End Class

Output: -

The screenshot shows a Java Swing window titled "Q13" with a light gray background. The window contains a form with the following elements:

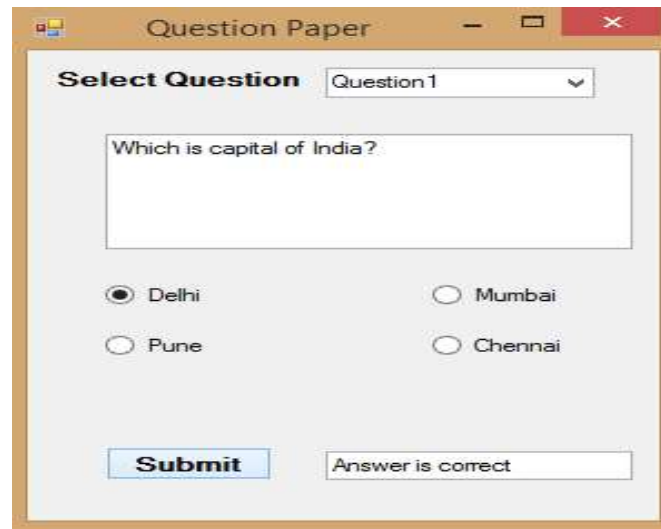
- Name:** A text input field containing "TEJAS SHINDE".
- Gender:** Two radio buttons labeled "Male" (selected) and "Female".
- Age:** Three radio buttons labeled "Less than 18", "19-40" (selected), and "Above 40".
- Right:** Three checkboxes labeled "Drive Car" (checked), "Can't Drive", and "All Right".
- OK Button:** A button labeled "OK" at the bottom center.

A modal dialog box is open over the form, displaying the output:

Name : TEJAS SHINDE Age : Between 18 To 40 . Can Drive

The dialog box has a close button (X) in the top right corner and an "OK" button at the bottom right.

Q14. Write a Vb.net program to design the following form, select the question number from combo box that question will be displayed into textbox and the options for that question will be displayed on four radio buttons, select option and click on submit button result should be displayed in another textbox.



Public Class Q14

Private Sub ComboBox1_SelectedIndexChanged(sender As Object, e As EventArgs)
Handles ComboBox1.SelectedIndexChanged

If ComboBox1.SelectedItem() = "Question 1" Then

RichTextBox1.Text = "What is Capital Of India ?"

RadioButton1.Text = "Delhi"

RadioButton2.Text = "Pune"

RadioButton3.Text = "Mumbai"

RadioButton4.Text = "Chennai"

End If

If ComboBox1.SelectedItem() = "Question 2" Then

RichTextBox1.Text = "What is Capital Of Maharashtra ?"

RadioButton1.Text = "Pune"

RadioButton2.Text = "Nagpur"

RadioButton3.Text = "Mumbai"

RadioButton4.Text = "Nagar"

End If

End Sub

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

Dim correct As String

Dim wrong As String

correct = "Answer is correct"

wrong = "Answer is wrong"

If ComboBox1.SelectedItem() = "Question 1" Then

If RadioButton1.Checked Then

TextBox1.Text = correct

ElseIf RadioButton2.Checked Then

TextBox1.Text = wrong

ElseIf RadioButton3.Checked Then

TextBox1.Text = wrong

ElseIf RadioButton4.Checked Then

TextBox1.Text = wrong

End If

End If

If ComboBox1.SelectedItem() = "Question 2" Then

If RadioButton1.Checked Then

TextBox1.Text = wrong

ElseIf RadioButton2.Checked Then

TextBox1.Text = wrong

ElseIf RadioButton3.Checked Then

TextBox1.Text = correct

ElseIf RadioButton4.Checked Then

TextBox1.Text = wrong

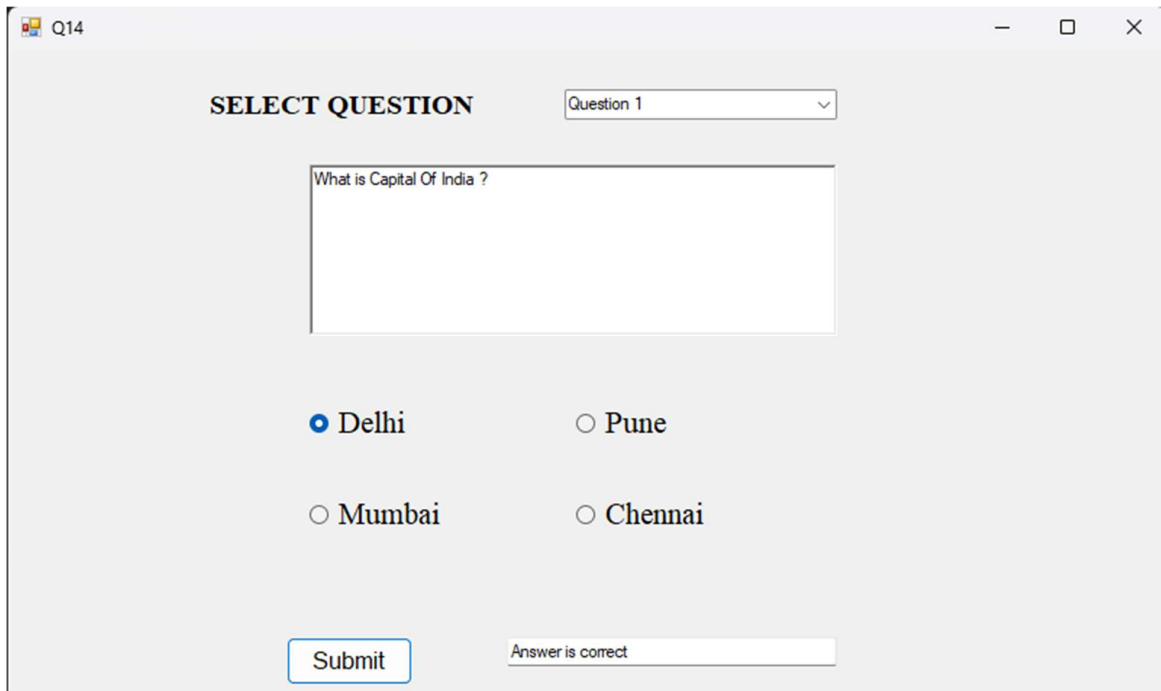
End If

End If

End Sub

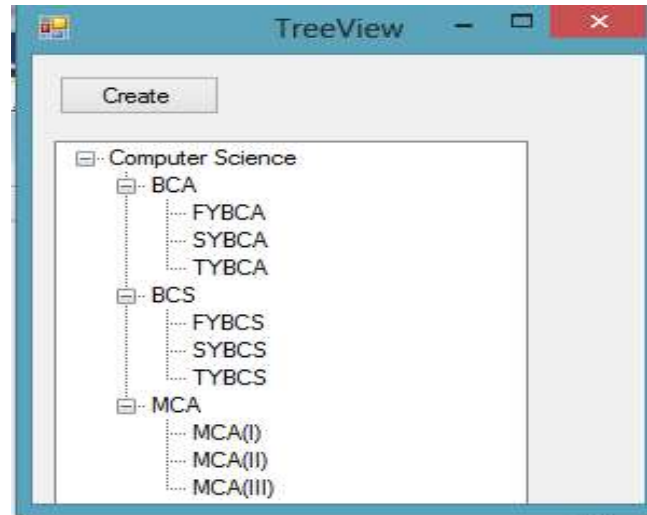
End Class

Output: -



The screenshot shows a web application window titled "Q14". The main heading is "SELECT QUESTION". To the right of the heading is a dropdown menu currently showing "Question 1". Below the heading is a text input field containing the question "What is Capital Of India ?". Underneath the input field are four radio button options: "Delhi" (which is selected), "Pune", "Mumbai", and "Chennai". At the bottom left is a "Submit" button. At the bottom right is a text field displaying the message "Answer is correct".

Q15. Write a Vb.net program to generate Sample TreeView control shown in following form:



Public Class Q15

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

TreeView2.Nodes.Add("Computer Science")

TreeView2.Nodes(0).Nodes.Add("BCA")

TreeView2.Nodes(0).Nodes(0).Nodes.Add("FYBCA")

TreeView2.Nodes(0).Nodes(0).Nodes.Add("SYBCA")

TreeView2.Nodes(0).Nodes(0).Nodes.Add("TYBCA")

TreeView2.Nodes(0).Nodes.Add("BSC")

TreeView2.Nodes(0).Nodes(1).Nodes.Add("FYBSC")

TreeView2.Nodes(0).Nodes(1).Nodes.Add("SYBSC")

TreeView2.Nodes(0).Nodes(1).Nodes.Add("TYBSC")

TreeView2.Nodes(0).Nodes.Add("MCA")

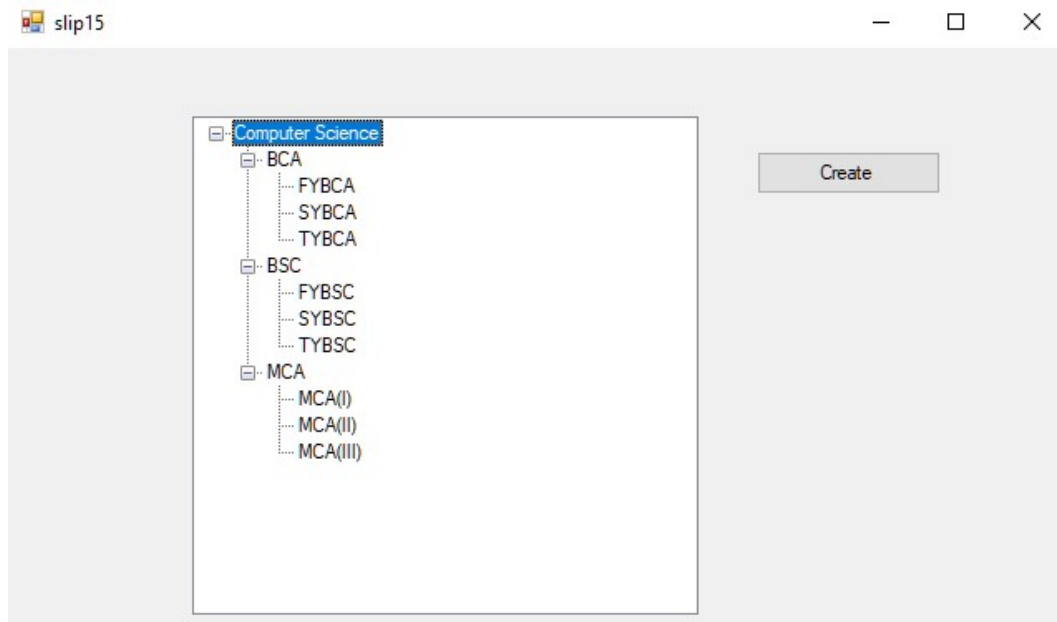
TreeView2.Nodes(0).Nodes(2).Nodes.Add("MCA(I)")

TreeView2.Nodes(0).Nodes(2).Nodes.Add("MCA(II)")

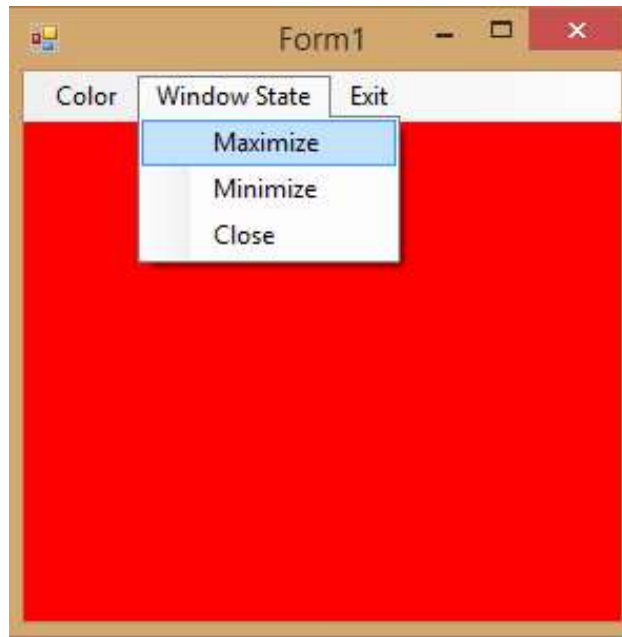
TreeView2.Nodes(0).Nodes(2).Nodes.Add("MCA(III)")

End Sub

End Class



Q16. Write a Vb.net program to design the following form, it contains the three menus Color (Red,Blue,Green) ,Window(Maximize, Minimize, Restore) and Exit. On Selection of any menu or submenu result should affect the form control(for example if user selected Red color from Color menu back color of form should get changed to Red and if user selected Maximize from Window Menu then form should get maximized).



Public Class Q16

```
Private Sub RedToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
RedToolStripMenuItem.Click
```

```
Me.BackColor = Color.Red
```

```
End Sub
```

```
Private Sub BlueToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
BlueToolStripMenuItem.Click
```

```
Me.BackColor = Color.Blue
```

```
End Sub
```

```
Private Sub GreenToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
GreenToolStripMenuItem.Click
```

```
Me.BackColor = Color.Green
```

End Sub

Private Sub MaximizeToolStripMenuItem_Click(sender As Object, e As EventArgs)
Handles MaximizeToolStripMenuItem.Click

Me.WindowState = FormWindowState.Maximized

End Sub

Private Sub MinimizeToolStripMenuItem_Click(sender As Object, e As EventArgs)
Handles MinimizeToolStripMenuItem.Click

Me.WindowState = FormWindowState.Minimized

End Sub

Private Sub RestoreToolStripMenuItem_Click(sender As Object, e As EventArgs)
Handles RestoreToolStripMenuItem.Click

Me.WindowState = FormWindowState.Normal

End Sub

Private Sub ExitToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
ExitToolStripMenuItem.Click

Me.Close()

End Sub

End Class

Q17. Write a Vb.net program to design the following form, this program shows the details of students in the form of form (use split container or Groupbox control to separate the input and output session). [Marks 20]

The screenshot shows a Windows application window titled "Student Information". Inside the window, there is a form with two main sections: "Input" and "Output".

Input Section:

- Student's Name: Text box containing "Raj"
- Father's Name: Text box containing "Sanjay"
- Mother's Name: Text box containing "Manisha"
- Course: Dropdown menu showing "BCA"
- Gender: Radio buttons for "Male" (selected) and "Female"
- Date of Birth: Date picker showing "15 January 20"
- Hobbies: Text box containing "Reading"
- Contact Number: Text box containing "9632587410"

Output Section:

- Student's Name: Label displaying "Raj"
- Father's Name: Label displaying "Sanjay"
- Mother's Name: Label displaying "Manisha"
- Course: Label displaying "BCA"
- Gender: Label displaying "Male"
- Date of Birth: Label displaying "15-01-2013 16:0"
- Hobbies: Label displaying "Reading"
- Contact Number: Label displaying "9632587410"

A "Submit" button is located at the bottom center of the form.

Public Class Q17

Private Sub Q17_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Panel2.Hide()

End Sub

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

Panel2.Show()

Label12.Text = TextBox1.Text

Label13.Text = TextBox2.Text

Label14.Text = TextBox3.Text

Label15.Text = ComboBox1.SelectedItem()

If RadioButton1.Checked = True Then

Label16.Text = RadioButton1.Text

ElseIf RadioButton2.Checked = True Then

```
Label16.Text = RadioButton2.Text
```

```
End If
```

```
Label17.Text = DateTimePicker1.Value
```

```
Label18.Text = TextBox4.Text
```

```
Label19.Text = TextBox5.Text
```

```
End Sub
```

```
End Class
```


Q18. Write a Vb.net program to design the following form, accept all details from user and display the details through message box.



Public Class Form1

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

Dim a, b, c As String

c = TextBox1.Text

If CheckBox1.Checked = True And CheckBox2.Checked = True Then

a = CheckBox1.Text

a = CheckBox2.Text

ElseIf CheckBox2.Checked = True Then

a = CheckBox2.Text

ElseIf CheckBox3.Checked = True Then

a = CheckBox3.Text

ElseIf CheckBox4.Checked = True Then

a = CheckBox4.Text

End If

If RadioButton1.Checked = True Then

b = RadioButton1.Text

ElseIf RadioButton2.Checked = True Then

b = RadioButton2.Text

ElseIf RadioButton3.Checked = True Then

```
b = RadioButton3.Text
```

```
ElseIf RadioButton4.Checked = True Then
```

```
b = RadioButton4.Text
```

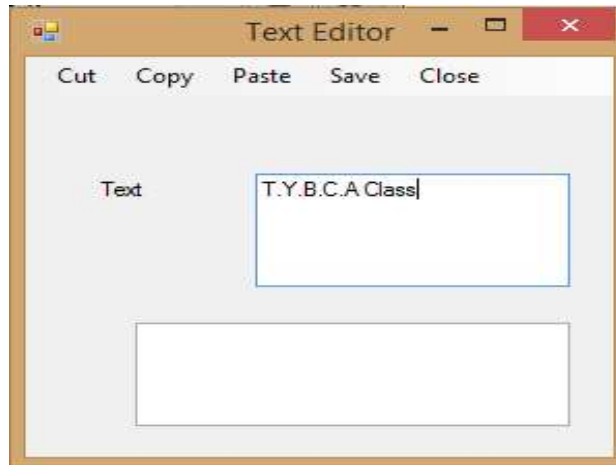
```
End If
```

```
MessageBox.Show("Name: " + c + " Post: " + b + " Qualification: " + a)
```

```
End Sub
```

```
End Class
```

Q19. Develop the menu based Vb.net application to implement a text editor with cut, copy, paste, save, close operations.



Public Class Q19

Private Sub SaveToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
SaveToolStripMenuItem.Click

Dim path As String

If DialogResult.OK = SaveFileDialog1.ShowDialog() Then

path = SaveFileDialog1.FileName

RichTextBox1.SaveFile(path, RichTextBoxStreamType.PlainText)

MsgBox("File saved successfully")

End If

End Sub

Private Sub CutToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
CutToolStripMenuItem.Click

RichTextBox1.Cut()

End Sub

Private Sub CopyToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
CopyToolStripMenuItem.Click

RichTextBox1.Copy()

End Sub

Private Sub PasteToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
PasteToolStripMenuItem.Click

RichTextBox2.Paste()

End Sub

Private Sub CloseToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
CloseToolStripMenuItem.Click

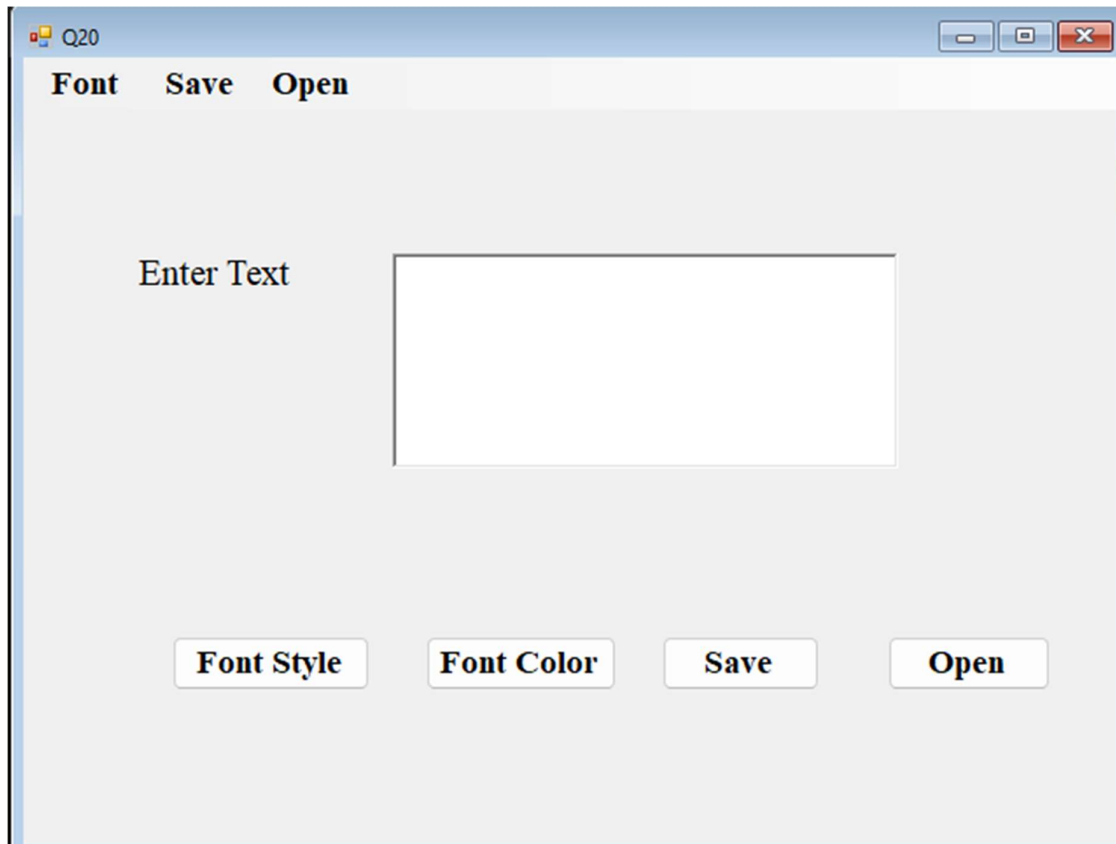
Me.Close()

End Sub

End Class

Q20. Write a VB.NET program to do the following operations on RichTextBox values

- i) Font Style
- ii) Font Color
- iii) Save
- iv) Open



Public Class Q20

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

FontDialog1.ShowDialog()

RichTextBox1.Font = FontDialog1.Font

End Sub

Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click

ColorDialog1.ShowDialog()

RichTextBox1.ForeColor = ColorDialog1.Color

End Sub

Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click

Dim path As String

If DialogResult.OK = SaveFileDialog1.ShowDialog() Then

path = SaveFileDialog1.FileName

RichTextBox1.SaveFile(path, RichTextBoxStreamType.PlainText)

MsgBox("File saved successfully")

End If

End Sub

Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click

Dim path As String

If DialogResult.OK = OpenFileDialog1.ShowDialog() Then

path = OpenFileDialog1.FileName

RichTextBox1.LoadFile(path, RichTextBoxStreamType.PlainText)

MsgBox("File Open successfully.....")

End If

End Sub

Private Sub FontStyleToolStripMenuItem_Click(sender As Object, e As EventArgs)

Handles FontStyleToolStripMenuItem.Click

End Sub

Private Sub StyleToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles

StyleToolStripMenuItem.Click

FontDialog1.ShowDialog()

RichTextBox1.Font = FontDialog1.Font

End Sub

Private Sub ColorToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
ColorToolStripMenuItem.Click

ColorDialog1.ShowDialog()

RichTextBox1.ForeColor = ColorDialog1.Color

End Sub

Private Sub SaveToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
SaveToolStripMenuItem.Click

Dim path As String

If DialogResult.OK = SaveFileDialog1.ShowDialog() Then

path = SaveFileDialog1.FileName

RichTextBox1.SaveFile(path, RichTextBoxStreamType.PlainText)

MsgBox("File saved successfully")

End If

End Sub

Private Sub OpToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
OpToolStripMenuItem.Click

Dim path As String

If DialogResult.OK = OpenFileDialog1.ShowDialog() Then

path = OpenFileDialog1.FileName

RichTextBox1.LoadFile(path, RichTextBoxStreamType.PlainText)

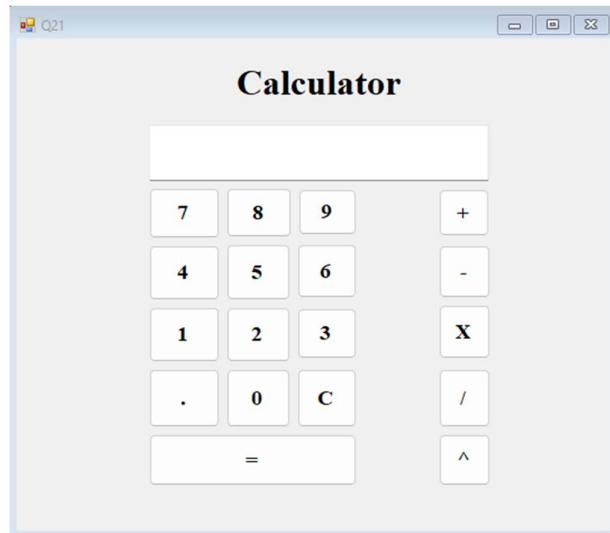
MsgBox("File Open successfully.....")

End If

End Sub

End Class

Q21. Create a project to design a calculator using control array



Public Class Q21

Dim a As Double

Dim b As Double

Dim c As Double

Dim op As Char

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

If TextBox1.Text = "0" Then

TextBox1.Text = "7"

Else

TextBox1.Text += "7"

End If

End Sub

Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click

If TextBox1.Text = "0" Then

TextBox1.Text = "8"

Else


```
    TextBox1.Text += "8"
```

```
End If
```

```
End Sub
```

```
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
```

```
    If TextBox1.Text = "0" Then
```

```
        TextBox1.Text = "9"
```

```
    Else
```

```
        TextBox1.Text += "9"
```

```
    End If
```

```
End Sub
```

```
Private Sub Button6_Click(sender As Object, e As EventArgs) Handles Button6.Click
```

```
    If TextBox1.Text = "0" Then
```

```
        TextBox1.Text = "4"
```

```
    Else
```

```
        TextBox1.Text += "4"
```

```
    End If
```

```
End Sub
```

```
Private Sub Button5_Click(sender As Object, e As EventArgs) Handles Button5.Click
```

```
    If TextBox1.Text = "0" Then
```

```
        TextBox1.Text = "5"
```

```
    Else
```

```
        TextBox1.Text += "5"
```

```
    End If
```

```
End Sub
```

```
Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
    If TextBox1.Text = "0" Then
        TextBox1.Text = "6"
    Else
        TextBox1.Text += "6"
    End If
End Sub
```

```
Private Sub Button9_Click(sender As Object, e As EventArgs) Handles Button9.Click
    If TextBox1.Text = "0" Then
        TextBox1.Text = "1"
    Else
        TextBox1.Text += "1"
    End If
End Sub
```

```
Private Sub Button8_Click(sender As Object, e As EventArgs) Handles Button8.Click
    If TextBox1.Text = "0" Then
        TextBox1.Text = "2"
    Else
        TextBox1.Text += "2"
    End If
End Sub
```

```
Private Sub Button7_Click(sender As Object, e As EventArgs) Handles Button7.Click
    If TextBox1.Text = "0" Then
```

```
    TextBox1.Text = "3"
```

```
Else
```

```
    TextBox1.Text += "3"
```

```
End If
```

```
End Sub
```

```
Private Sub Button11_Click(sender As Object, e As EventArgs) Handles Button11.Click
```

```
    If TextBox1.Text = "0" Then
```

```
        TextBox1.Text = "0"
```

```
Else
```

```
    TextBox1.Text += "0"
```

```
End If
```

```
End Sub
```

```
Private Sub Button12_Click(sender As Object, e As EventArgs) Handles Button12.Click
```

```
    If TextBox1.Text = "0" Then
```

```
        TextBox1.Text = ""
```

```
Else
```

```
    TextBox1.Text += "."
```

```
End If
```

```
End Sub
```

```
Private Sub Button16_Click(sender As Object, e As EventArgs) Handles Button16.Click
```

```
    a = Val(TextBox1.Text)
```

```
    op = "+"
```

```
    TextBox1.Text = ""
```

```
End Sub
```

```
Private Sub Button15_Click(sender As Object, e As EventArgs) Handles Button15.Click
    a = Val(TextBox1.Text)
    op = "-"
    TextBox1.Text = ""
End Sub
```

```
Private Sub Button14_Click(sender As Object, e As EventArgs) Handles Button14.Click
    a = Val(TextBox1.Text)
    op = "*"
    TextBox1.Text = ""
End Sub
```

```
Private Sub Button13_Click(sender As Object, e As EventArgs) Handles Button13.Click
    a = Val(TextBox1.Text)
    op = "/"
    TextBox1.Text = ""
End Sub
```

```
Private Sub Button18_Click(sender As Object, e As EventArgs) Handles Button18.Click
    a = Val(TextBox1.Text)
    op = "^"
    TextBox1.Text = ""
End Sub
```

```
Private Sub Button17_Click(sender As Object, e As EventArgs) Handles Button17.Click
    TextBox1.Clear()
```

End Sub

Private Sub Button10_Click(sender As Object, e As EventArgs) Handles Button10.Click

b = Val(TextBox1.Text)

If (op = "+") Then

TextBox1.Text = a + b

ElseIf op = "^" Then

TextBox1.Text = a ^ b

ElseIf op = "-" Then

TextBox1.Text = a - b

ElseIf op = "*" Then

TextBox1.Text = a * b

ElseIf op = "/" And b = 0 Then

TextBox1.Text = "Syntax Error"

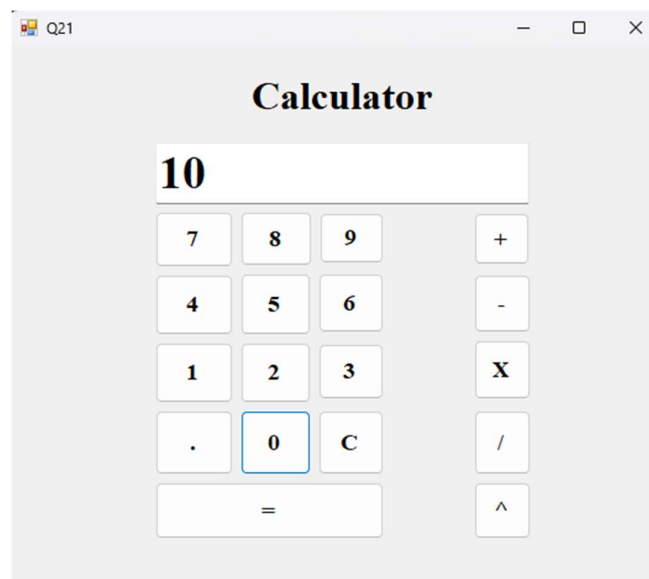
ElseIf op = "/" Then

TextBox1.Text = a / b

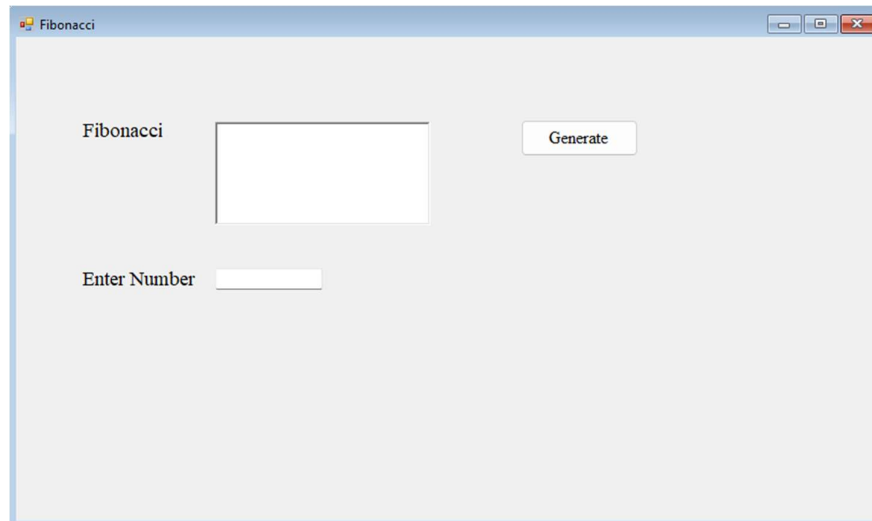
End If

End Sub

End Class



Q22 Write a program, using recursive function to generate Fibonacci Series.



Public Class Q22

Function fib(ByVal n As Integer) As Integer

If (n = 0 Or n = 1) Then

Return n

Else

Return fib(n - 1) + fib(n - 2)

End If

End Function

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

Dim n As Integer = TextBox1.Text

While (n >= 0)

Dim s As String = fib(n)

RichTextBox1.Text += s + " "

n -= 1

End While

End Sub

End Class

Fibonacci

Fibonacci

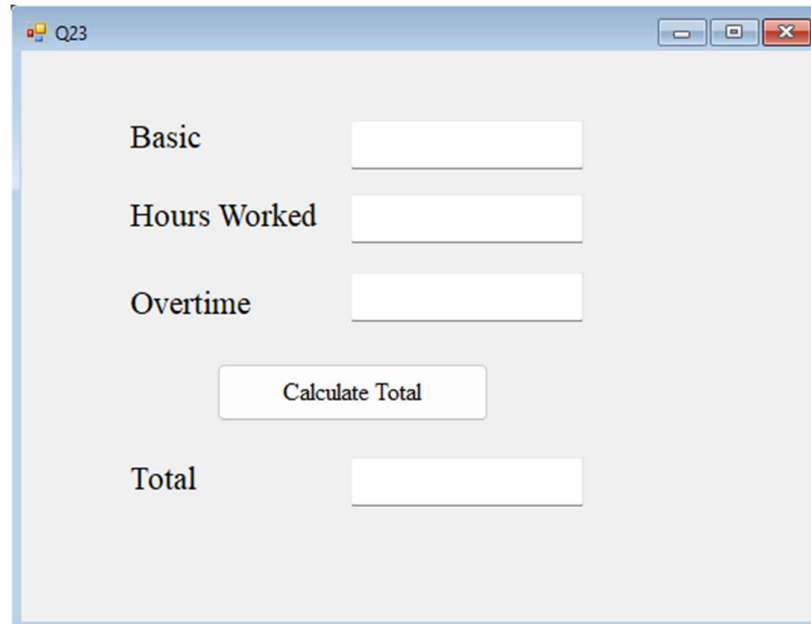
532110

Generate

Enter Number

5

Q.23 Write a program to calculate pay that takes two parameters hours and wages and display the total pay of an employee.



Public Class Q23

Dim hour, basic, overtime As Integer

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

hour = Val(TextBox2.Text)

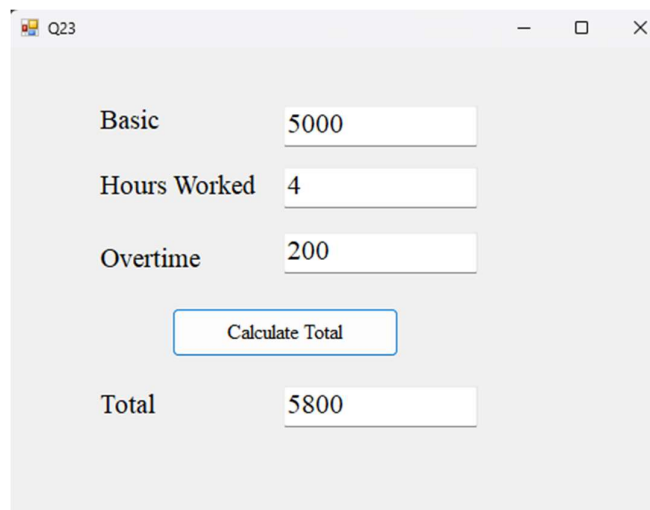
basic = Val(TextBox1.Text)

overtime = Val(TextBox3.Text)

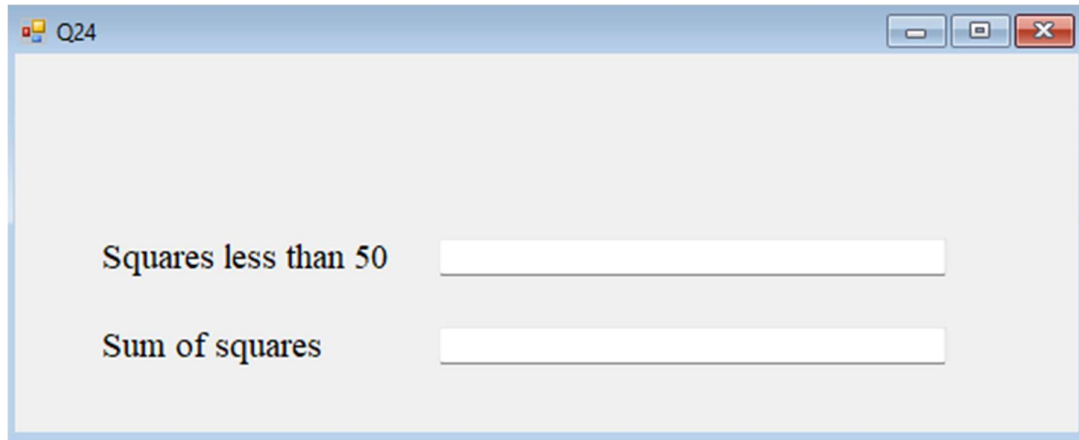
TextBox4.Text = basic + hour * overtime

End Sub

End Class



Q24 Write a program to print first n square less than 50 and print the sum of the all the square of the n number



Public Class Q24

Private Sub Q24_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Dim n As Integer = 1

Dim sum As Integer = 0

Dim x As String

While n * n < 50

x = n * n

sum += n * n

n += 1

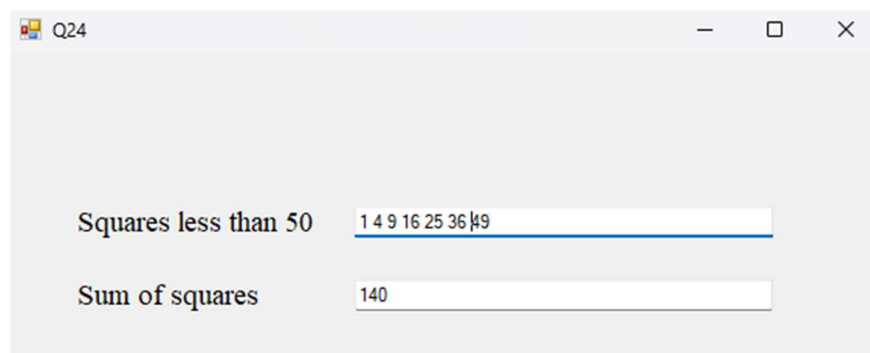
TextBox1.Text += x + "

End While

TextBox2.Text = sum

End Sub

End Class



Q25 Create a project for book sales. Make text boxes for quantity, title and price with labels. Calculate total price, discount (15%) and discounted price.

The screenshot shows a Windows-style application window titled "Q25". Inside the window, there are five text boxes with labels to their left: "Quantity", "Title", "Price", "Total Price", and "Discounted Price(15%)". The "Quantity", "Title", and "Price" text boxes are empty. Below these three text boxes is a "Calculate" button. The "Total Price" and "Discounted Price(15%)" text boxes are also empty.

Public Class Q25

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

Dim price As Integer = Val(TextBox1.Text) * Val(TextBox3.Text)

TextBox4.Text = price

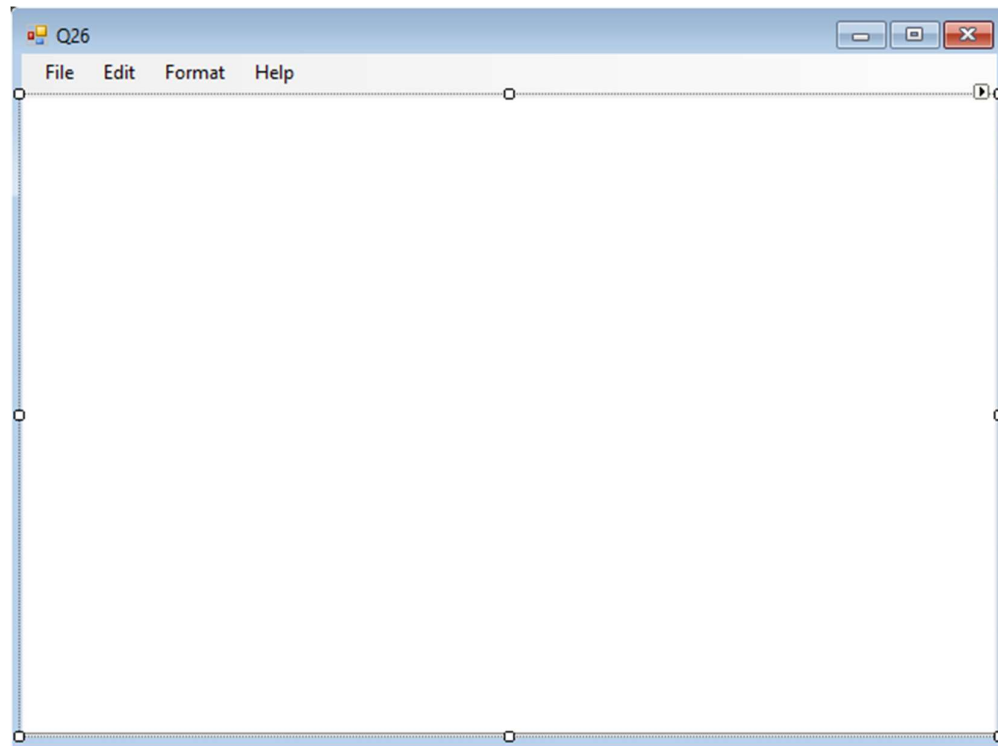
TextBox5.Text = price - (0.15 * price)

End Sub

End Class

The screenshot shows the same "Q25" application window after the "Calculate" button has been clicked. The text boxes now contain the following values: "Quantity" is "2", "Title" is "50 Shades", "Price" is "1500", "Total Price" is "3000", and "Discounted Price(15%)" is "2550". The "Calculate" button is still visible below the input fields.

Q26 Create a text editor application. It should perform operation like cut, copy, paste and change in font, color of the selected text. Also implement new open and save-file menu option. Write a program to implement the concept of function overloading.



```
Public Class Q26
```

```
    Private Sub NewToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
NewToolStripMenuItem.Click
```

```
        MsgBox("Do you want to save changes...", MsgBoxStyle.YesNoCancel)
```

```
        TextBox1.Text = " "
```

```
    End Sub
```

```
    Private Sub OpenToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
OpenToolStripMenuItem.Click
```

```
        If OpenFileDialog1.ShowDialog = Windows.Forms.DialogResult.OK Then
```

```
            TextBox1.Text =
```

```
My.Computer.FileSystem.ReadAllText(OpenFileDialog1.FileName)
```

```
        End If
```

```
    End Sub
```

```
Private Sub SaveToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
SaveToolStripMenuItem.Click
```

```
    If SaveFileDialog1.ShowDialog = Windows.Forms.DialogResult.OK Then
```

```
        My.Computer.FileSystem.WriteAllText(SaveFileDialog1.FileName, TextBox1.Text,  
False)
```

```
    End If
```

```
End Sub
```

```
Private Sub PrintToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
PrintToolStripMenuItem.Click
```

```
    PrintDialog1.ShowDialog()
```

```
End Sub
```

```
Private Sub ExitToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
ExitToolStripMenuItem.Click
```

```
    Me.Close()
```

```
End Sub
```

```
Private Sub UndoToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
UndoToolStripMenuItem.Click
```

```
    TextBox1.Undo()
```

```
End Sub
```

```
Private Sub CopyToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
CopyToolStripMenuItem.Click
```

```
    TextBox1.Copy()
```

```
End Sub
```

```
Private Sub CutToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
CutToolStripMenuItem.Click
```

```
    TextBox1.Cut()
```

```
End Sub
```

```
Private Sub PasteToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
PasteToolStripMenuItem.Click
```

```
    TextBox1.Paste()
```

```
End Sub
```

```
Private Sub SelectAllToolStripMenuItem_Click(sender As Object, e As EventArgs)  
Handles SelectAllToolStripMenuItem.Click
```

```
    TextBox1.SelectAll()
```

```
End Sub
```

```
Private Sub FontToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
FontToolStripMenuItem.Click
```

```
    If FontDialog1.ShowDialog = Windows.Forms.DialogResult.OK Then
```

```
        TextBox1.Font = FontDialog1.Font
```

```
    End If
```

```
End Sub
```

```
Private Sub ColorToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles  
ColorToolStripMenuItem.Click
```

```
    If ColorDialog1.ShowDialog = Windows.Forms.DialogResult.OK Then
```

```
        TextBox1.ForeColor = ColorDialog1.Color
```

```
    End If
```

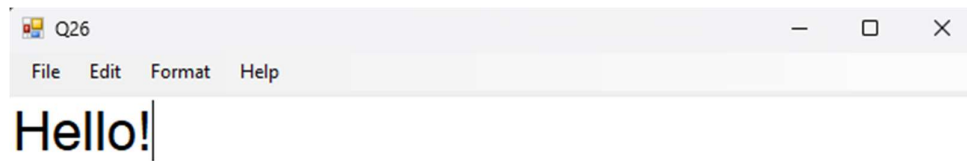
```
End Sub
```

Private Sub AboutToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
AboutToolStripMenuItem.Click

MsgBox("Notepad developed by" & vbCrLf & "Tejas R Shinde")

End Sub

End Class



Q27 Using exception handling write a program to divide two numbers

Module Module1

```
Sub Division(ByVal num1 As Integer, ByVal num2 As Integer)
```

```
    Dim result As Integer
```

```
    Try
```

```
        result = num1 \ num2
```

```
    Catch e As DivideByZeroException
```

```
        Console.WriteLine("Exception caught: {0}", e)
```

```
    Finally
```

```
        Console.WriteLine("Result: {0}", result)
```

```
    End Try
```

```
End Sub
```

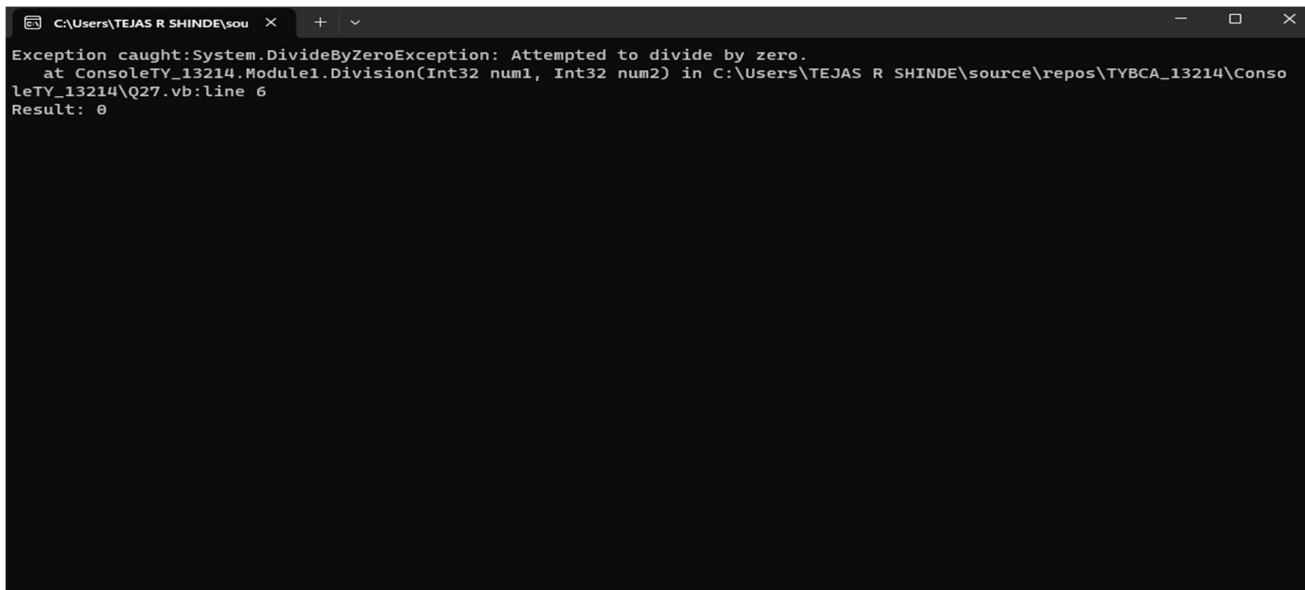
```
Sub Main()
```

```
    Division(25, 0)
```

```
    Console.ReadKey()
```

```
End Sub
```

End Module



```
C:\Users\TEJAS R SHINDE\source\repos\TYBCA_13214\ConsoleTY_13214\Q27.vb
Exception caught:System.DivideByZeroException: Attempted to divide by zero.
at ConsoleTY_13214.Module1.Division(Int32 num1, Int32 num2) in C:\Users\TEJAS R SHINDE\source\repos\TYBCA_13214\ConsoleTY_13214\Q27.vb:line 6
Result: 0
```

Q28 Currency Conversion



Public Class Q28

Dim x, y, z As Double

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

If ComboBox1.Text = "POUND" And ComboBox2.Text = "USD" Then

x = TextBox1.Text

y = x * 90

z = y / 70

Label2.Text = z

ElseIf ComboBox1.Text = "POUND" And ComboBox2.Text = "INR" Then

Label2.Text = Nothing

x = TextBox1.Text

y = x * 90

Label2.Text = y

ElseIf ComboBox1.Text = "USD" And ComboBox2.Text = "INR" Then

Label2.Text = Nothing

x = TextBox1.Text

$y = x * 70$

Label2.Text = y

ElseIf ComboBox1.Text = "USD" And ComboBox2.Text = "GBP" Then

Label2.Text = Nothing

x = TextBox1.Text

$y = x * 70$

$z = y / 90$

Label2.Text = z

ElseIf ComboBox1.Text = "INR" And ComboBox2.Text = "USD" Then

Label2.Text = Nothing

x = TextBox1.Text

$y = x / 70$

Label2.Text = y

ElseIf ComboBox1.Text = "INR" And ComboBox2.Text = "GBP" Then

Label2.Text = Nothing

x = TextBox1.Text

$y = x / 90$

Label2.Text = y

Else

Label2.Text = Nothing

x = TextBox1.Text

Label2.Text = x

End If

End Sub

End Class

Q28

CURRENCY CONVERTER

USD

To

INR

100

7000

CONVERT

Q29. Write a VB.NET program to create a table Patient (Pid, PName, Contact_No, Disease). Insert records into table and display appropriate message in message box. (Use MS Access to create db)

Q30. Write a VB.NET program to create a table Employee (Eid, EName, Designation, doj). Insert records into table and display it in GridView. (Use SQLServer to create db)



Imports System.Data.SqlClient

Public Class Q30

Private connection As SqlConnection

Private command As SqlCommand

Private adapter As SqlDataAdapter

Private str As String

Private ds As New DataSet

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

connection = New SqlConnection("Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\TEJAS R
SHINDE\source\repos\TYBCA_13214\TYBCA_13214\Employee.mdf;Integrated
Security=True")

connection.Open()

str = New String("Insert into Employee values(" & CInt(TextBox1.Text) & "," &
TextBox2.Text & "," & TextBox3.Text & "," & TextBox4.Text & ")")

command = New SqlCommand(str, connection)

command.ExecuteNonQuery()

```
MsgBox("Record inserted")
```

```
connection.Close()
```

```
End Sub
```

```
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
```

```
    connection = New SqlConnection("Data  
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\TEJAS R  
SHINDE\source\repos\TYBCA_13214\TYBCA_13214\Employee.mdf;Integrated  
Security=True")
```

```
    connection.Open()
```

```
    str = "select * from Employee"
```

```
    adapter = New SqlDataAdapter(str, connection)
```

```
    adapter.Fill(ds, "Employee")
```

```
    DataGridView1.DataSource = ds
```

```
    DataGridView1.DataMember = "Employee"
```

```
    connection.Close()
```

```
End Sub
```

```
End Class
```

Q31. Write a VB.NET program to create a table student (RollNo ,SName, Class). Insert the records (Max: 5). Update class of students to 'TYBCA' whose class is 'SYBCA' and display updated records in GridView. (Use MS Access to create db)

Q32. Write a VB.NET program to create teacher table (Tid , TName, subject). Insert the records (Max : 5). Search record of a teacher who teaches "VB.NET" subject and display result in GridView. (Use SQL to create db).

Q33. Write a VB.NET program to create movie table (Mv_Name, Release_year, Director). Insert the records(Max: 5). Delete the records of movies whose release year is 2015 and display appropriate message in messagebox.(Use MS Access to create db)

Q34. Write a VB.NET program to accept the details of customer (CName, Contact_No, Email_id). Store it into the database with proper validation and display appropriate message by using MessageBox.(Use MS Access)

Q35. Write a VB.NET program to accept the details of product (pid, pname, expiry_date, price). Store it into the database and display it on the Crystal Report.(Use SQL Server)

Q36. Write a VB.NET program to accept the details Supplier (SupId, SupName, Phone_No, Address) store it into the database and display it. (Use Crystal Report)

Q37. Write a VB.NET program to create Author table (aid , aname , book_name). Insert the records (Max 5). Delete a record of author who has written "VB.NET book" and display remaining records on the Crystal Report. (Use MS Access to create db)

Q38. Write a VB.NET program to create player table (Pid,PName,Game, no_of_matches). Insert records and update number of matches of 'Sachin Tendulkar' and display result in Crystal Report. (Use SQL to create db)