

# SUMMER AND COVERTER SYSTEM.

**VISUAL BASIC** 

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#### Welcome Form

### ✓ Code:

```
Public Class Form1
    Private Sub Butto2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click, Button2.Click
        If Val(TextBox1.Text) = 1 AndAlso Val(TextBox2.Text) = 43 Then
            Me.Hide()
            Form2.Show()
        Else
            MsgBox("Enter The correct BN Number Please!!")
            TextBox1.Clear()
        End If
    End Sub
    Private Sub botto1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
        End
    End Sub
    Private Sub TextBox1 TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TextBox1.TextChanged, TextBox2.TextChanged
        Dim a As String
        Dim c As Double
        a = TextBox1.Text
        c = Len(a)
        If Not IsNumeric(a) Then
            If c = 1 Then
                If Not (IsNumeric(a) Or a = "") Then
                    MessageBox.Show("Enter a number")
                    TextBox1.Clear()
                    Exit Sub
                End If
                TextBox1.Text = ""
            ElseIf c = 0 Then
                Exit Sub
            Else
                a = LSet(a, c - 1)
                TextBox1.Text = a
                TextBox1.SelectionStart = c - 1
                TextBox1.SelectionLength = c
                TextBox1.DeselectAll()
            End If
        End If
    End Sub
    Private Sub TextBox2_TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TextBox2.TextChanged, TextBox2.TextChanged
        Dim a As String
        Dim c As Double
        a = TextBox2.Text
        c = Len(a)
```

```
If Not IsNumeric(a) Then
         If c = 1 Then
             If Not (IsNumeric(a) Or a = "") Then
    MessageBox.Show("Enter a number")
                  TextBox2.Clear()
                  Exit Sub
             End If
             TextBox2.Text = ""
         ElseIf c = 0 Then
             Exit Sub
         Else
             a = LSet(a, c - 1)
             TextBox2.Text = a
             TextBox2.SelectionStart = c - 1
             TextBox2.SelectionLength = c
             TextBox2.DeselectAll()
         End If
    End If
End Sub
 End Class
```

#### ✓ Design:



#### Main Form

#### ✓ Code:

```
Public Class Form2
    Private Sub Button2 Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button2.Click
        Me.Close()
        Form1.Show()
   End Sub
    Private Sub ComboBox2 SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ComboBox2.SelectedIndexChanged
        Button1.Enabled = True
   End Sub
   Private Sub ComboBox5_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ComboBox5.SelectedIndexChanged
        Button4.Enabled = True
    End Sub
   Private Sub Button6_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button6.Click
        TextBox2.Text = ""
        Label2.Text = ""
    End Sub
   Private Sub Button7_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button7.Click
        TextBox3.Text = ""
        TextBox4.Text = ""
        Label1.Text = ""
   End Sub
    Private Sub ComboBox6 SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ComboBox6.SelectedIndexChanged
        TextBox2.Enabled = True
    End Sub
    Private Sub ComboBox3_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ComboBox3.SelectedIndexChanged
        TextBox3.Enabled = True
    End Sub
   Private Sub ComboBox4_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles ComboBox4.SelectedIndexChanged
        TextBox4.Enabled = True
    End Sub
    Private Sub TextBox2 GotFocus(ByVal sender As Object, ByVal e As System.EventArgs)
Handles TextBox2.GotFocus
        TextBox2.Text = ""
   End Sub
```

```
Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button3.Click
        End
    End Sub
    Private Sub TextBox4_GotFocus(ByVal sender As Object, ByVal e As System.EventArgs)
Handles TextBox4.GotFocus
        TextBox4.Text = ""
    End Sub
    Private Sub TextBox3_GotFocus(ByVal sender As Object, ByVal e As System.EventArgs)
Handles TextBox3.GotFocus
        TextBox3.Text = ""
    End Sub
    Private Sub Form2_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
        Label1.Text = ""
        Label2.Text = ""
    End Sub
    Private Sub TextBox2_TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TextBox2.TextChanged
        Dim a As String
        Dim c As Double
        a = TextBox2.Text
        c = Len(a)
        Select Case ComboBox6.SelectedIndex
            Case 0
                If Not IsNumeric(a) Then
                    If c = 1 Then
                        If Not (IsNumeric(a) Or a = "") Then
                            MessageBox.Show("Enter a number")
                            a = ""
                            Exit Sub
                        End If
                        TextBox2.Text = ""
                    ElseIf c = 0 Then
                        Exit Sub
                    Else
                        a = LSet(a, c - 1)
                        TextBox2.Text = a
                        TextBox2.SelectionStart = c - 1
                        TextBox2.SelectionLength = c
                        TextBox2.DeselectAll()
                        End If
                End If
            Case 1
                If Not (IsNumeric(a) Or a = "") Then
                    MessageBox.Show("Enter a number")
                    a = ""
                    If c = 1 Then
                        If IsNumeric(a) Then
                            Exit Sub
                        End If
                        TextBox2.Text = ""
                    ElseIf c = 0 Then
```

```
Exit Sub
                    Else
                        a = LSet(a, c - 1)
                        TextBox2.Text = a
                        TextBox2.SelectionStart = c - 1
                        TextBox2.SelectionLength = c
                        TextBox2.DeselectAll()
                    End If
                End If
            Case 2
                If Not (IsNumeric(a) Or a = "") Then
                    MessageBox.Show("Enter a number")
                    If c = 1 Then
                        If IsNumeric(a) Then
                            Exit Sub
                        End If
                        TextBox2.Text = ""
                    ElseIf c = 0 Then
                        Exit Sub
                    Else
                        a = LSet(a, c - 1)
                        TextBox2.Text = a
                        TextBox2.SelectionStart = c - 1
                        TextBox2.SelectionLength = c
                        TextBox2.DeselectAll()
                    End If
                End If
        End Select
   End Sub
   Private Sub TextBox3_TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TextBox3.TextChanged
       Dim a As String
        Dim b As Single
        a = TextBox3.Text
        b = Len(a)
        Select Case ComboBox3.SelectedIndex
                If Not (IsNumeric(a) Or a = "") Then
                    MessageBox.Show("Enter a number")
                    If b = 1 Then
                        If IsNumeric(a) Then
                            Exit Sub
                        End If
                        TextBox3.Text = ""
                    ElseIf b = 0 Then
                        Exit Sub
                    Else
                        a = LSet(a, b - 1)
                        TextBox3.Text = a
                        TextBox3.SelectionStart = b - 1
                        TextBox3.SelectionLength = b
                        TextBox3.DeselectAll()
                    End If
                End If
```

```
If Not (IsNumeric(a) Or a = "") Then
                    MessageBox.Show("Enter a number")
                    a = ""
                    If b = 1 Then
                        If IsNumeric(a) Then
                            Exit Sub
                        End If
                        TextBox3.Text = ""
                    ElseIf b = 0 Then
                        Exit Sub
                    Else
                        a = LSet(a, b - 1)
                        TextBox3.Text = a
                        TextBox3.SelectionStart = b - 1
                        TextBox3.SelectionLength = b
                        TextBox3.DeselectAll()
                    End If
                End If
            Case 2
                If Not (IsNumeric(a) Or a = "") Then
                    MessageBox.Show("Enter a number")
                    a = ""
                    If b = 1 Then
                        If IsNumeric(a) Then
                            Exit Sub
                        End If
                        TextBox2.Text = ""
                    ElseIf b = 0 Then
                        Exit Sub
                    Else
                        a = LSet(a, b - 1)
                        TextBox3.Text = a
                        TextBox3.SelectionStart = b - 1
                        TextBox3.SelectionLength = b
                        TextBox3.DeselectAll()
                    End If
                End If
        End Select
   End Sub
   Private Sub TextBox4_TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TextBox4.TextChanged
       Dim a As String
        Dim b As Single
        a = TextBox4.Text
        b = Len(a)
        Select Case ComboBox4.SelectedIndex
            Case 0
                If Not (IsNumeric(a) Or a = "") Then
                    MessageBox.Show("Enter a number")
                    a = ""
                    If b = 1 Then
                        If IsNumeric(a) Then
                            Exit Sub
                        End If
                        TextBox4.Text = ""
```

Case 1

```
Exit Sub
                    Else
                        a = LSet(a, b - 1)
                        TextBox4.Text = a
                        TextBox4.SelectionStart = b - 1
                        TextBox4.SelectionLength = b
                        TextBox4.DeselectAll()
                    End If
                End If
            Case 1
                If Not (IsNumeric(a) Or a = "") Then
                    MessageBox.Show("Enter a number")
                    a = ""
                    If b = 1 Then
                        If IsNumeric(a) Then
                            Exit Sub
                        End If
                        TextBox4.Text = ""
                    ElseIf b = 0 Then
                        Exit Sub
                    Else
                        a = LSet(a, b - 1)
                        TextBox4.Text = a
                        TextBox4.SelectionStart = b - 1
                        TextBox4.SelectionLength = b
                        TextBox4.DeselectAll()
                    End If
                End If
            Case 2
                If Not (IsNumeric(a) Or a = "") Then
                    MessageBox.Show("Enter a number")
                    a = ""
                    If b = 1 Then
                        If IsNumeric(a) Then
                            Exit Sub
                        End If
                        TextBox4.Text = ""
                    ElseIf b = 0 Then
                        Exit Sub
                    Else
                        a = LSet(a, b - 1)
                        TextBox4.Text = a
                        TextBox4.SelectionStart = b - 1
                        TextBox4.SelectionLength = b
                        TextBox4.DeselectAll()
                    End If
                End If
        End Select
   End Sub
   Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button1.Click
        Dim x As Long = Long.Parse(TextBox2.Text)
        If ComboBox6.SelectedIndex = 0 AndAlso ComboBox2.SelectedIndex = 1 Then
            Label2.Text = Convert.ToString(x, 2)
        ElseIf ComboBox6.SelectedIndex = 0 AndAlso ComboBox2.SelectedIndex = 2 Then
```

ElseIf b = 0 Then

```
Label2.Text = Convert.ToString(x, 8)
        ElseIf ComboBox6.SelectedIndex = 0 AndAlso ComboBox2.SelectedIndex = 0 Then
            Label2.Text = x.ToString()
        ElseIf ComboBox6.SelectedIndex = 1 AndAlso ComboBox2.SelectedIndex = 0 Then
            Label2.Text = Convert.ToUInt64(x, 2)
        ElseIf ComboBox6.SelectedIndex = 1 AndAlso ComboBox2.SelectedIndex = 2 Then
            x = Convert.ToUInt64(x, 2)
            Label2.Text = Convert.ToString(x, 8)
        ElseIf ComboBox6.SelectedIndex = 1 AndAlso ComboBox2.SelectedIndex = 1 Then
            Label2.Text = x.ToString()
        ElseIf ComboBox6.SelectedIndex = 2 AndAlso ComboBox2.SelectedIndex = 0 Then
            Label2.Text = Convert.ToUInt64(x, 8)
        ElseIf ComboBox6.SelectedIndex = 2 AndAlso ComboBox2.SelectedIndex = 1 Then
            x = Convert.ToUInt64(x, 8)
            Label2.Text = Convert.ToString(x, 2)
        ElseIf ComboBox6.SelectedIndex = 2 AndAlso ComboBox2.SelectedIndex = 2 Then
            Label2.Text = x.ToString()
        End If
    End Sub
    Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button4.Click
        Dim x As Long = Long.Parse(TextBox3.Text)
        Dim y As Long = Long.Parse(TextBox4.Text)
        Dim d As Long
        If ComboBox3.SelectedIndex = 0 AndAlso ComboBox4.SelectedIndex = 0 AndAlso
ComboBox5.SelectedIndex = 0 Then
            x = x.ToString()
            y = y.ToString()
            d = x + y
            Label1.Text = d.ToString()
        ElseIf ComboBox3.SelectedIndex = 0 AndAlso ComboBox4.SelectedIndex = 0 AndAlso
ComboBox5.SelectedIndex = 1 Then
            x = x.ToString()
            y = y.ToString()
            d = x + y
            Label1.Text = Convert.ToString(d, 2)
        ElseIf ComboBox3.SelectedIndex = 0 AndAlso ComboBox4.SelectedIndex = 0 AndAlso
ComboBox5.SelectedIndex = 2 Then
            x = x.ToString()
            y = y.ToString()
            d = x + y
            Label1.Text = Convert.ToString(d, 8)
        ElseIf ComboBox3.SelectedIndex = 0 AndAlso ComboBox4.SelectedIndex = 1 AndAlso
ComboBox5.SelectedIndex = 0 Then
            x = x.ToString()
            y = Convert.ToUInt64(y, 2)
            d = x + y
            Label1.Text = d.ToString()
        ElseIf ComboBox3.SelectedIndex = 0 AndAlso ComboBox4.SelectedIndex = 1 AndAlso
ComboBox5.SelectedIndex = 1 Then
            x = x.ToString()
            y = Convert.ToUInt64(y, 2)
            Label1.Text = Convert.ToString(d, 2)
        ElseIf ComboBox3.SelectedIndex = 0 AndAlso ComboBox4.SelectedIndex = 1 AndAlso
ComboBox5.SelectedIndex = 2 Then
            x = x.ToString()
```

```
y = Convert.ToUInt64(y, 2)
            d = x + y
            Label1.Text = Convert.ToString(d, 8)
        ElseIf ComboBox3.SelectedIndex = 1 AndAlso ComboBox4.SelectedIndex = 0 AndAlso
ComboBox5.SelectedIndex = 0 Then
           x = Convert.ToUInt64(x, 2)
            y = y.ToString()
            d = x + y
            Label1.Text = d.ToString()
        ElseIf ComboBox3.SelectedIndex = 1 AndAlso ComboBox4.SelectedIndex = 0 AndAlso
ComboBox5.SelectedIndex = 1 Then
            x = Convert.ToUInt64(x, 2)
            y = y.ToString()
            d = x + y
            Label1.Text = Convert.ToString(d, 2)
        ElseIf ComboBox3.SelectedIndex = 1 AndAlso ComboBox4.SelectedIndex = 0 AndAlso
ComboBox5.SelectedIndex = 2 Then
            x = Convert.ToUInt64(x, 2)
            y = y.ToString()
            d = x + y
            Label1.Text = Convert.ToString(d, 8)
        ElseIf ComboBox3.SelectedIndex = 0 AndAlso ComboBox4.SelectedIndex = 2 AndAlso
ComboBox5.SelectedIndex = 0 Then
            x = x.ToString()
            y = Convert.ToUInt64(y, 8)
            d = x + y
            Label1.Text = d.ToString()
        ElseIf ComboBox3.SelectedIndex = 0 AndAlso ComboBox4.SelectedIndex = 2 AndAlso
ComboBox5.SelectedIndex = 1 Then
            x = x.ToString()
            y = Convert.ToUInt64(y, 8)
            d = x + y
            Label1.Text = Convert.ToString(d, 2)
        ElseIf ComboBox3.SelectedIndex = 0 AndAlso ComboBox4.SelectedIndex = 2 AndAlso
ComboBox5.SelectedIndex = 2 Then
            x = x.ToString()
            y = Convert.ToUInt64(y, 8)
            d = x + y
            Label1.Text = Convert.ToString(d, 8)
        ElseIf ComboBox3.SelectedIndex = 2 AndAlso ComboBox4.SelectedIndex = 0 AndAlso
ComboBox5.SelectedIndex = 0 Then
            x = Convert.ToUInt64(x, 8)
            y = y.ToString()
            d = x + y
            Label1.Text = d.ToString()
        ElseIf ComboBox3.SelectedIndex = 2 AndAlso ComboBox4.SelectedIndex = 0 AndAlso
ComboBox5.SelectedIndex = 1 Then
            x = Convert.ToUInt64(x, 8)
            y = y.ToString()
            d = x + y
            Label1.Text = Convert.ToString(d, 2)
        ElseIf ComboBox3.SelectedIndex = 2 AndAlso ComboBox4.SelectedIndex = 0 AndAlso
ComboBox5.SelectedIndex = 2 Then
            x = Convert.ToUInt64(x, 8)
            y = y.ToString()
            d = x + y
            Label1.Text = Convert.ToString(d, 8)
```

```
ElseIf ComboBox3.SelectedIndex = 1 AndAlso ComboBox4.SelectedIndex = 1 AndAlso
ComboBox5.SelectedIndex = 0 Then
            x = Convert.ToUInt64(x, 2)
            y = Convert.ToUInt64(y, 2)
            d = x + y
            Label1.Text = d.ToString()
        ElseIf ComboBox3.SelectedIndex = 1 AndAlso ComboBox4.SelectedIndex = 1 AndAlso
ComboBox5.SelectedIndex = 1 Then
            x = Convert.ToUInt64(x, 2)
            y = Convert.ToUInt64(y, 2)
            d = x + y
            Label1.Text = Convert.ToString(d, 2)
        ElseIf ComboBox3.SelectedIndex = 1 AndAlso ComboBox4.SelectedIndex = 1 AndAlso
ComboBox5.SelectedIndex = 2 Then
            x = Convert.ToUInt64(x, 2)
            y = Convert.ToUInt64(y, 2)
            d = x + y
            Label1.Text = Convert.ToString(d, 8)
        ElseIf ComboBox3.SelectedIndex = 1 AndAlso ComboBox4.SelectedIndex = 2 AndAlso
ComboBox5.SelectedIndex = 0 Then
            x = Convert.ToUInt64(x, 2)
            y = Convert.ToUInt64(y, 8)
            d = x + y
            Label1.Text = d.ToString()
        ElseIf ComboBox3.SelectedIndex = 1 AndAlso ComboBox4.SelectedIndex = 2 AndAlso
ComboBox5.SelectedIndex = 1 Then
            x = Convert.ToUInt64(x, 2)
            y = Convert.ToUInt64(y, 8)
            d = x + y
            Label1.Text = Convert.ToString(d, 2)
        ElseIf ComboBox3.SelectedIndex = 1 AndAlso ComboBox4.SelectedIndex = 2 AndAlso
ComboBox5.SelectedIndex = 2 Then
            x = Convert.ToUInt64(x, 2)
            y = Convert.ToUInt64(y, 8)
            Label1.Text = Convert.ToString(d, 8)
        ElseIf ComboBox3.SelectedIndex = 2 AndAlso ComboBox4.SelectedIndex = 1 AndAlso
ComboBox5.SelectedIndex = 0 Then
            x = Convert.ToUInt64(x, 8)
            y = Convert.ToUInt64(y, 2)
            d = x + y
            Label1.Text = d.ToString()
        ElseIf ComboBox3.SelectedIndex = 2 AndAlso ComboBox4.SelectedIndex = 1 AndAlso
ComboBox5.SelectedIndex = 1 Then
            x = Convert.ToUInt64(x, 8)
            y = Convert.ToUInt64(y, 2)
            d = x + y
            Label1.Text = Convert.ToString(d, 2)
        ElseIf ComboBox3.SelectedIndex = 2 AndAlso ComboBox4.SelectedIndex = 1 AndAlso
ComboBox5.SelectedIndex = 2 Then
            x = Convert.ToUInt64(x, 8)
            y = Convert.ToUInt64(y, 2)
            d = x + y
            Label1.Text = Convert.ToString(d, 8)
        ElseIf ComboBox3.SelectedIndex = 2 AndAlso ComboBox4.SelectedIndex = 2 AndAlso
ComboBox5.SelectedIndex = 0 Then
            x = Convert.ToUInt64(x, 8)
            y = Convert.ToUInt64(y, 8)
```

```
d = x + y
            Label1.Text = d.ToString()
        ElseIf ComboBox3.SelectedIndex = 2 AndAlso ComboBox4.SelectedIndex = 2 AndAlso
ComboBox5.SelectedIndex = 1 Then
            x = Convert.ToUInt64(x, 8)
            y = Convert.ToUInt64(y, 8)
            d = x + y
            Label1.Text = Convert.ToString(d, 2)
        ElseIf ComboBox3.SelectedIndex = 2 AndAlso ComboBox4.SelectedIndex = 2 AndAlso
ComboBox5.SelectedIndex = 2 Then
            x = Convert.ToUInt64(x, 8)
            y = Convert.ToUInt64(y, 8)
            d = x + y
            Label1.Text = Convert.ToString(d, 8)
        End If
    End Sub
```

End Class

## ✓ Design:



# System in run time



Before entering any data



Entering the BN Numbers



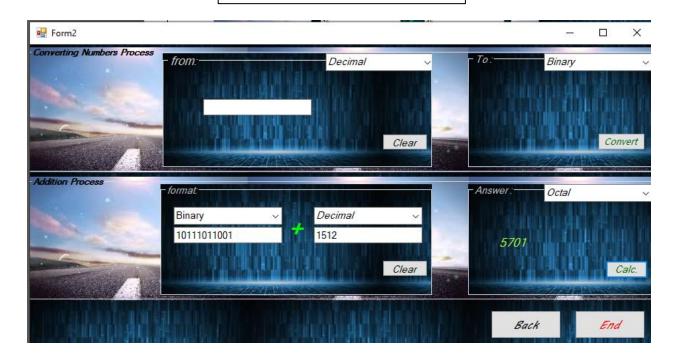
Before entering any data



In converting region



Example (1) in adding two numbers



Example (2) in adding two numbers