DIGITAL ASSIGNMENT - 3

REG NO : 19BCS0012

NAME : NITHISH G

COURSE CODE : CSC3004

COURSE : VISUAL PROGRAMMING

DATE : 11.04.2021

Create an innovative VP project. Add at least three forms to your project and add at least 3 controls to each form.

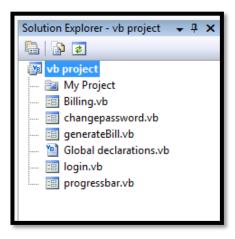
Note: Create your own project using your own idea using various features of vb2010. Do not copy from any source. You need to use the idea for your application on your own.

Project Title: Electricity Billing

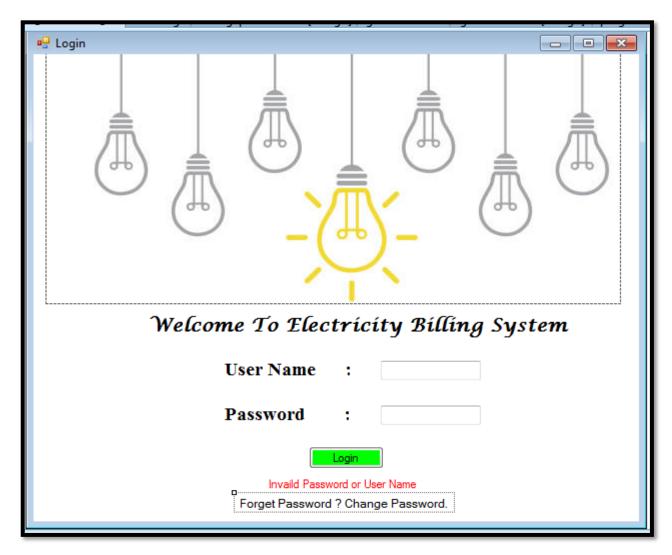
Input Design

Note: Forms added in this Project

- 1. Login
- 2. Billing
- 3. Progress Bill
- 4. Generate Bill
- 5. Change Password
- 6. Global Declarations(module.vb)



1. Login Form(Form1)



2. BILLING (Form2)

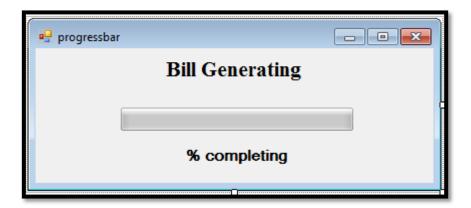


Functionalities & Controls used in 2nd Form

Functionalities: Calculating the Total Charges based on Connection Type and Generate Bill

<u>Controls</u>: Picture Box, Radio Button, Combo Box, Text box, Buttons, Labels.

3. Progress Bill

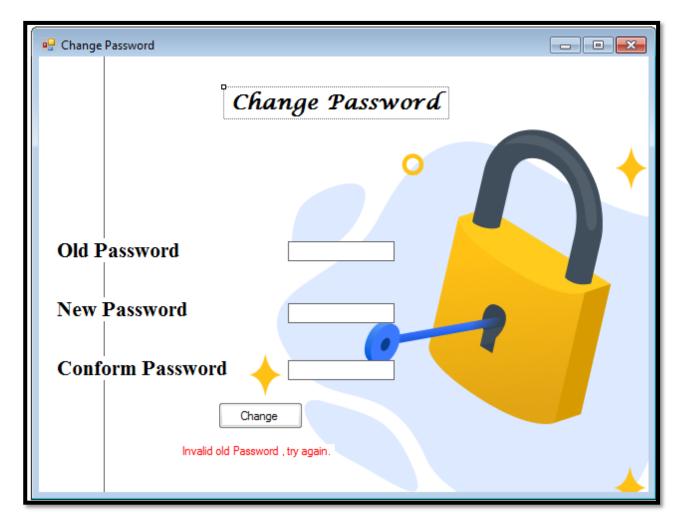


4. Generate Bill



Controls: Picture Box, Rich Box, Button, Label.

5. Change Password



Controls: Picture Box, Labels, Buttons, Textboxes

Event Procedures: Global Variables for this Project (Moduel1)

```
Module Module1

Public username As String = "NITHISH G"
Public password As String = "vb#1"
Public home As Integer = 4
Public business As Integer = 6
Public unit_charge As Integer = 0
Public total_amount As Integer = 0
Public total_units As Integer = 0
Public total_charges As Integer = 0
Public connection_type As String = ""
Public connection_ID As String = ""
Public month As String = " "

End Module
```

Event Procedures: Login (Form1)

```
Public Class login
 Private Sub Form1 Load (ByVal sender As System. Object, ByVal e As System. EventArgs)
Handles MyBase.Load
        Label4. Visible = False
    End Sub
 Private Sub Button1 Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button1.Click
        If TextBox1.Text = username And TextBox2.Text = password Then
            Billing.Show()
            Me.Visible = False
        Else
            Label4. Visible = True
        End If
    End Sub
  Private Sub Label3 Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Label3.Click
        changepassword. Show ()
        Me. Visible = False
    End Sub
End Class
```

Event Procedures: Billing (Form2)

```
Public Class Billing
    Private Sub Button1 Click(ByVal sender As System.Object, ByVal e As
System. EventArgs) Handles Button1. Click
        connection ID = TextBox1.Text
        month = ComboBox1.SelectedItem
        If RadioButton1.Checked Then
            unit charge = home
            connection type = "Home"
        Else
           unit charge = business
            connection type = "Business"
        End If
        total amount = TextBox2.Text * unit charge
        TextBox3.Text = total amount
        total units = TextBox2.Text
    End Sub
    Private Sub Button2 Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click
```

```
progressbar.Show()

Me.Visible = False

End Sub
End Class
```

Event Procedures: Progress Bill (Form3)

```
Public Class progressbar
    Private Sub progressbar Load (ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
        Dim i As Integer = 0
        Timer1.Start()
        Me.Visible = False
        GenerateBill.Show()
    End Sub
    Private Sub Timer1 Tick(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Timer1.Tick
        ProgressBar1.Minimum = 0
        ProgressBarl.Maximum = 100
        For i = 0 To 100
            ProgressBar1.Increment(1)
            Label2.Text = ProgressBar1.Value & " % Completing"
    End Sub
End Class
```

Event Procedures: Generate Bill(Form4)

```
Public Class GenerateBill
    Private Sub Form1 Load (ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
       Me.AutoScroll = True
       RichTextBox1.AppendText(vbCrLf & vbCrLf)
       RichTextBox1.AppendText(vbTab & " Electricity Bill " & vbCrLf & vbCrLf &
vbCrLf)
       RichTextBox1.AppendText(" Connection ID : " & connection ID &
vbCrLf & vbCrLf)
                                     Connection type : " & connection_type &
       RichTextBox1.AppendText("
vbCrLf & vbCrLf)
       RichTextBox1.AppendText("
                                      Month
                                                              : " & month & vbCrLf
& vbCrLf)
                                                                : " & total units &
       RichTextBox1.AppendText("
                                     Units
vbCrLf & vbCrLf)
       RichTextBox1.AppendText(" Total Charges : " & total amount &
vbCrLf)
   End Sub
   Private Sub Button1 Click 1(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
       Billing.Show()
       Me.Visible = False
   End Sub
```

Event Procedures: Change Password (Form5)

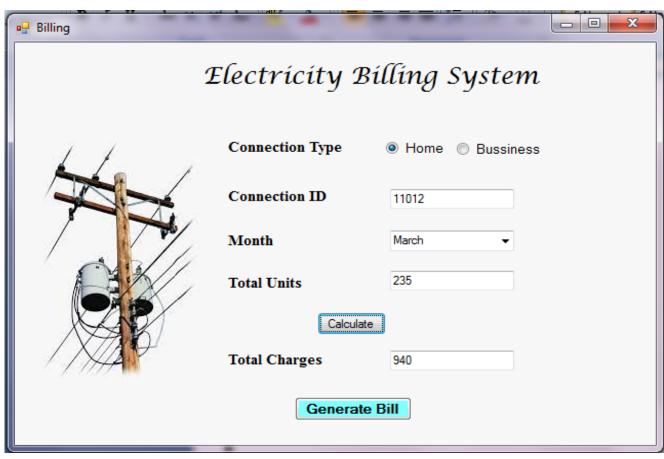
```
Public Class changepassword
    Private Sub Form2 Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
        Label4.Visible = False
    End Sub
    Private Sub Button1_Click_1(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
        If TextBox1.Text = password And TextBox2.Text = TextBox3.Text Then
            password = TextBox3.Text
            If Label4.Visible = True Then
                Label4. Visible = False
            End If
            MsgBox("Password Changed successfully", MsgBoxStyle.Information, "password
change")
            If MsqBoxResult.Ok Then
                login.Show()
                Me.Visible = False
            End If
        Else
            Label4.Visible = True
        End If
    End Sub
End Class
```

Output Form

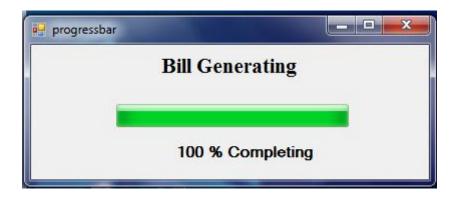
Login Form

<u>Login Form</u>: \rightarrow User Name : NITHISH G \rightarrow Password : vb#1





Bill Generating Progress

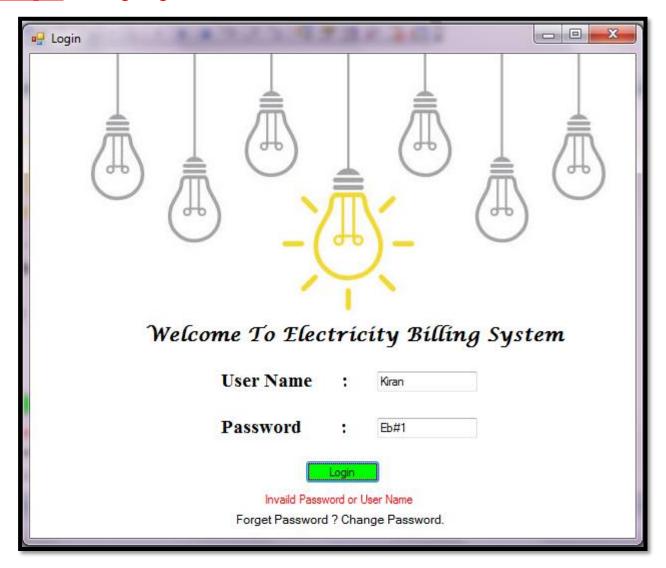


Bill generate Form



<u>Case: 1</u> If User Enter Wrong Password or User Name → <u>Show Invalid Password</u>

Example: if am giving Username as Kiran Password as Eb#1 it will show invalid



Case: 2

- ➤ If User needs to change the password→ click on below text as Forget Password? Change password.
- > So it will navigate to Change Password Form

Change Password Form



This will validate the old Password if it Correct it will show you the Message through message box control



Now the Password is changed as Vb#1project

So now we again change password by giving wrong password and check for message

If old password is not entered correctly then it will show the

Let's give old password as project



It identified as wrong so it show invalid old password and try again.

If once you entered the correct old password and you can change password then press change button it will show you a message password changed successfully then it will automatically to login form.

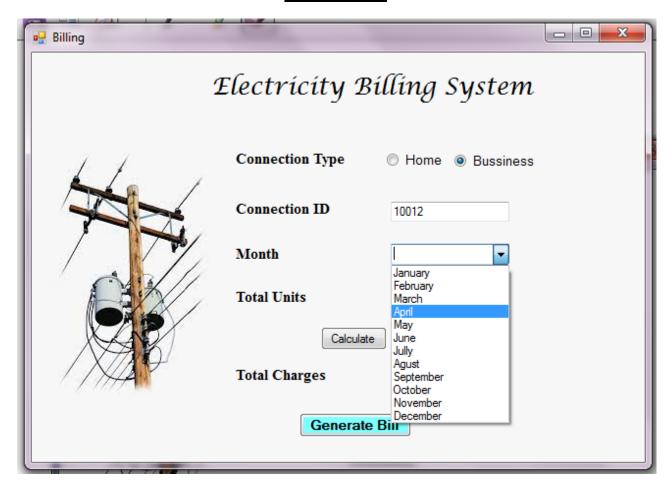
Billing Form

Then if you enter the Correct User name and password click On Login Button then it will navigate to Billing form.

User should select Connection Type, Enter Connection ID, choice the month from combo box, enter the total units of current used.

Unit Cost for Home 4rs, for Business 6rs

Billing Form

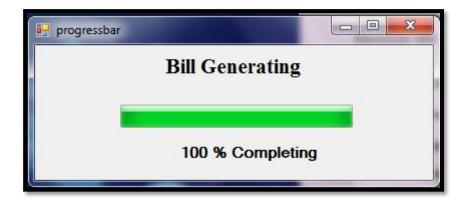


Once you gave all details click Calculate button to know charges



Progress Bill

After the calculate Total charges click on Generate Bill so it will navigate to Progress Bill



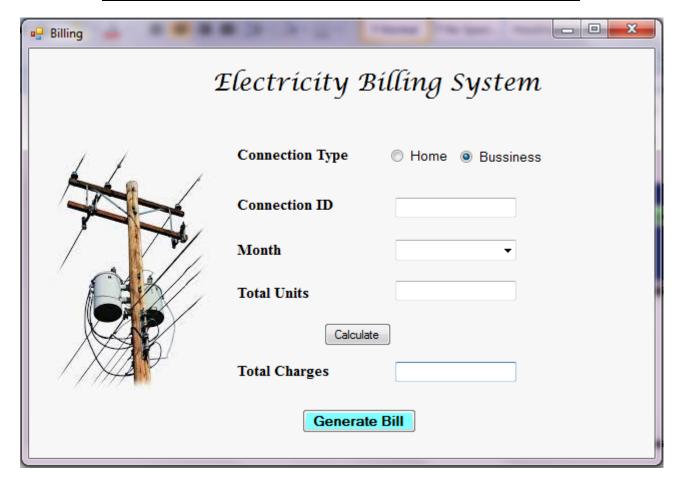
After the reaching 100% of progress bar it will navigate to Generate Bill

Generate Bill

The Bill will be shown on Rich Box Control shown below



If user wants to get back to the Billing → Press Back Button



Or else if User wants to end Press → logout Button to End Application