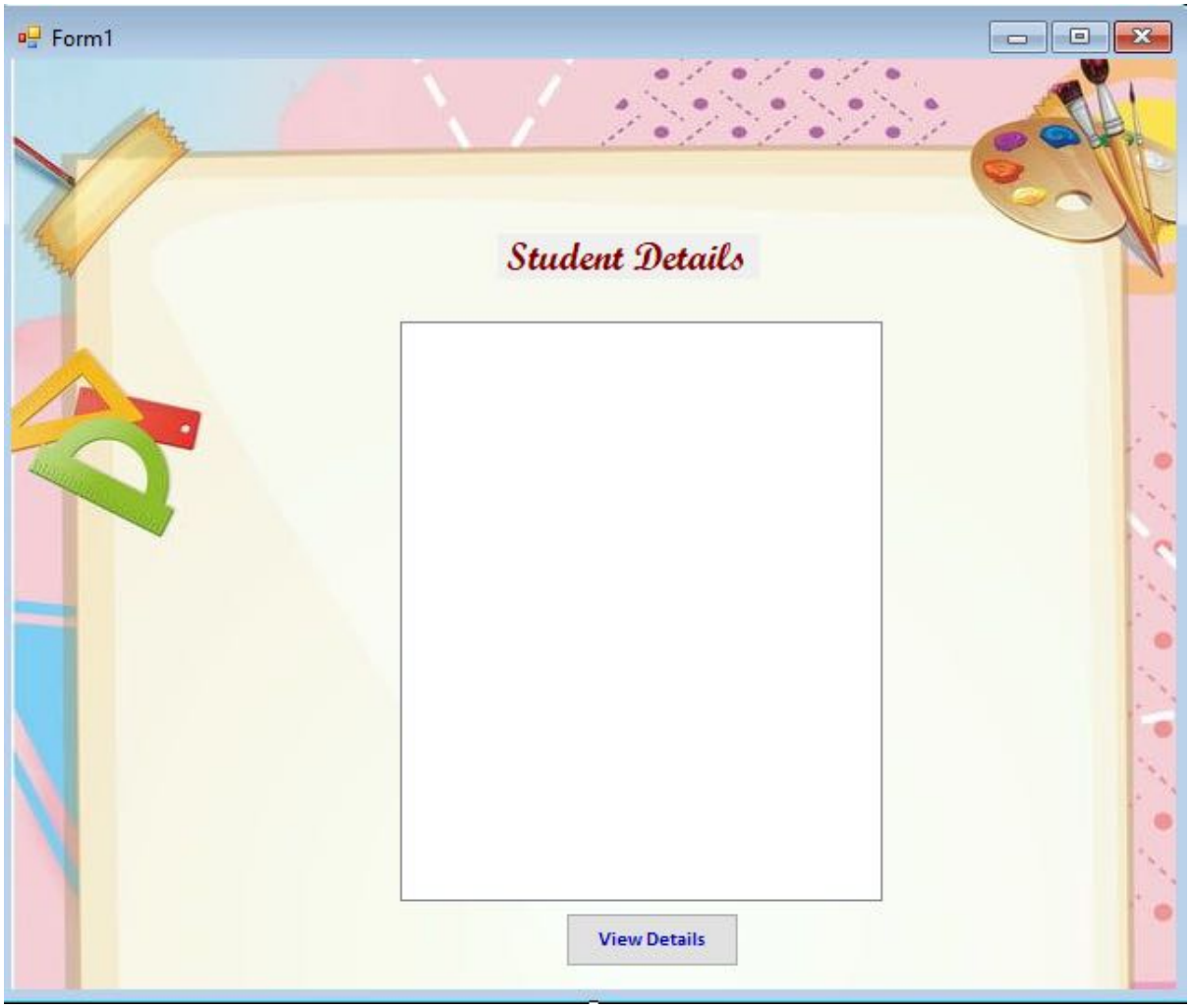
Program 1- **QUESTION**

Display the following detail in the List View control

i) Your Registration Number
ii) Your Name
iii) Age
iv) Gender
v) Address
vi) Total No of Credits Earned
vii) City
viii) State
ix) Country

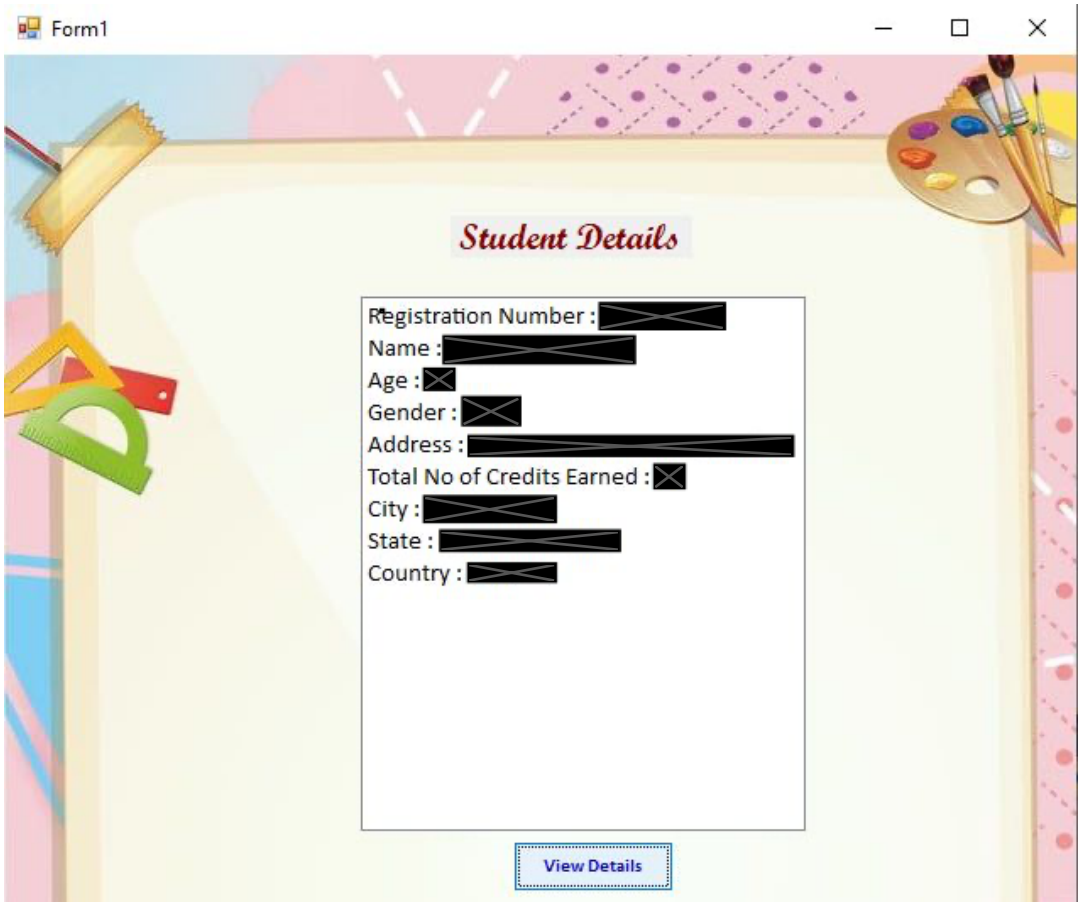
Program 1- **DESIGN**



Program 1- **PROCEDURE**

```
Public Class Form1
    'Display the following detail in the List View control
    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
        Dim ListItem1 As ListViewItem
        ListItem1 = ListView1.Items.Add("Registration Number : [redacted]")

        Dim ListItem2 As ListViewItem
        ListItem2 = ListView1.Items.Add("Name : [redacted]")

        Dim ListItem3 As ListViewItem
        ListItem3 = ListView1.Items.Add("Age : [redacted]")

        Dim ListItem4 As ListViewItem
        ListItem4 = ListView1.Items.Add("Gender : [redacted]")

        Dim ListItem5 As ListViewItem
        ListItem5 = ListView1.Items.Add("Address : [redacted]")

        Dim ListItem6 As ListViewItem
        ListItem6 = ListView1.Items.Add("Total No of Credits Earned : [redacted]")

        Dim ListItem7 As ListViewItem
        ListItem7 = ListView1.Items.Add("City : [redacted]")

        Dim ListItem8 As ListViewItem
        ListItem8 = ListView1.Items.Add("State : [redacted]")

        Dim ListItem9 As ListViewItem
        ListItem9 = ListView1.Items.Add("Country : [redacted]")
    End Sub

End Class
```

Program 1- **OUTPUT**



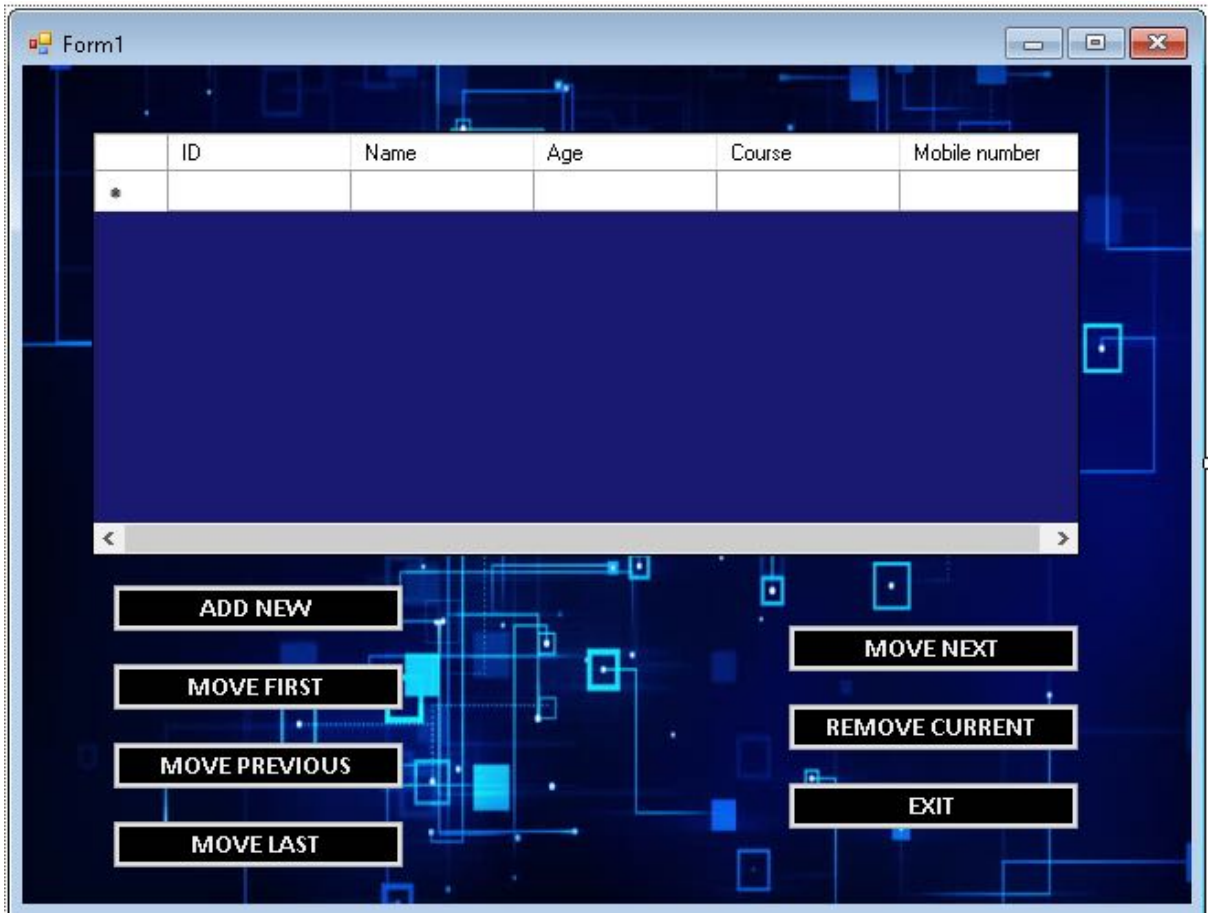
Result : This design is verified.

Program 2- **QUESTION**

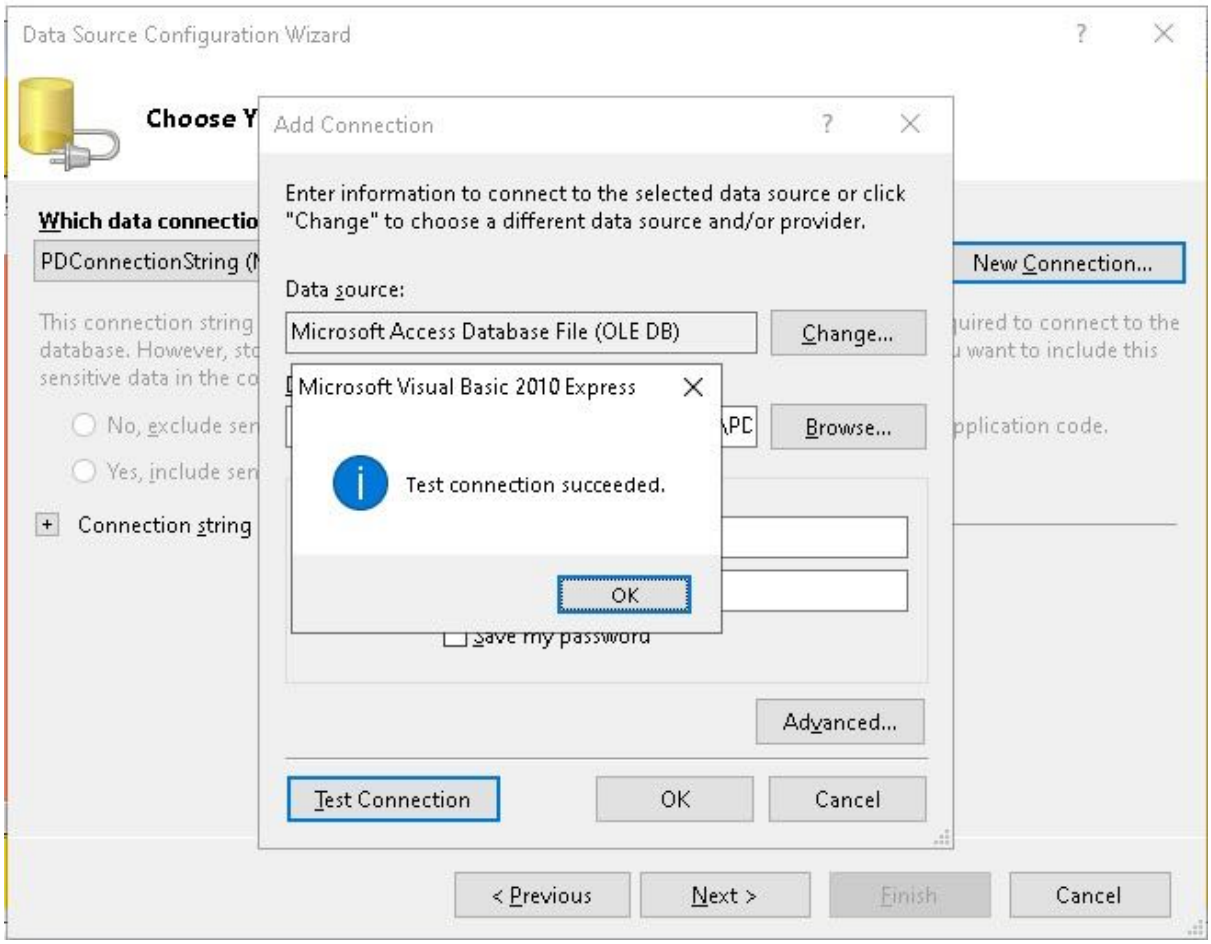
Create a Student Personal Detail table using Ms Access and connect your table with yours Visual Basic application.

i) Connect Back end database with and without event procedure
ii) Add Button controls for the following actions
    a) ADD NEW
    b) MOVE First
    c) Move Previous
    d) Move Last
    e) Move Next
    f) Remove Current
    g) Exit

Program 2- **DESIGN**



Program 2- **PROCEDURE**

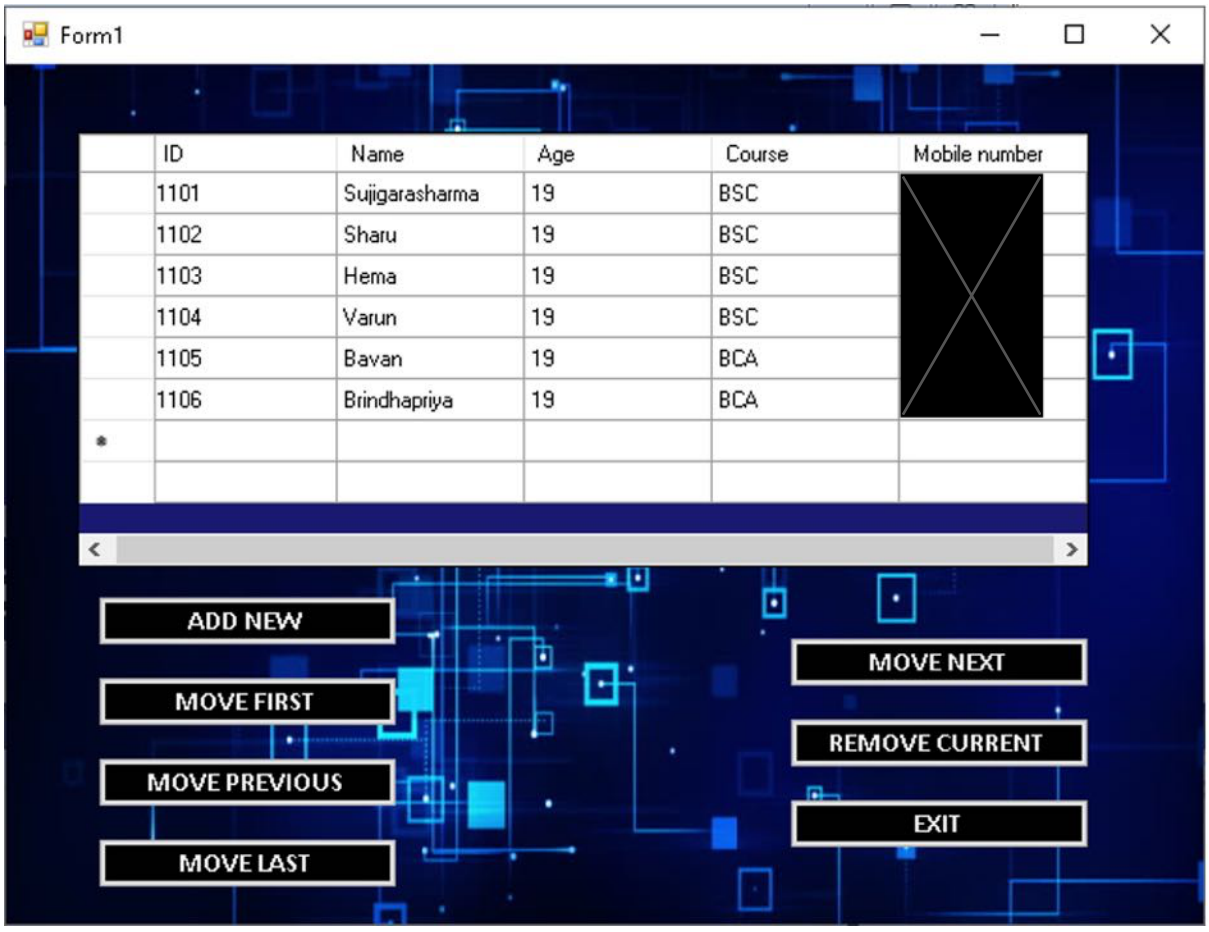


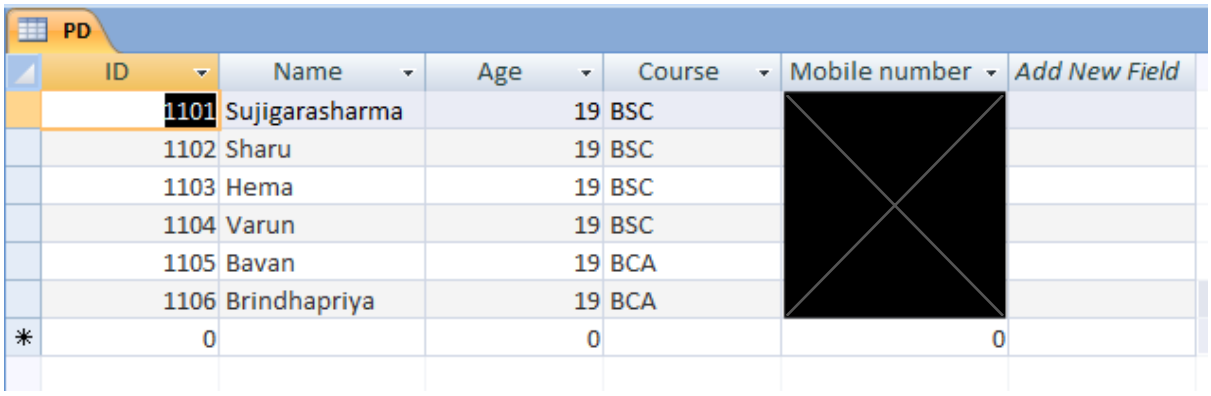
PD

ID	Name	Age	Course	Mobile number	Add New Field
1101	Sujigarasharma	19	BSC		
1102	Sharu	19	BSC		
1103	Hema	19	BSC		
1104	Varun	19	BSC		
1105	Bavan	19	BCA		
1106	Brindhapriya	19	BCA		
0		0		0	

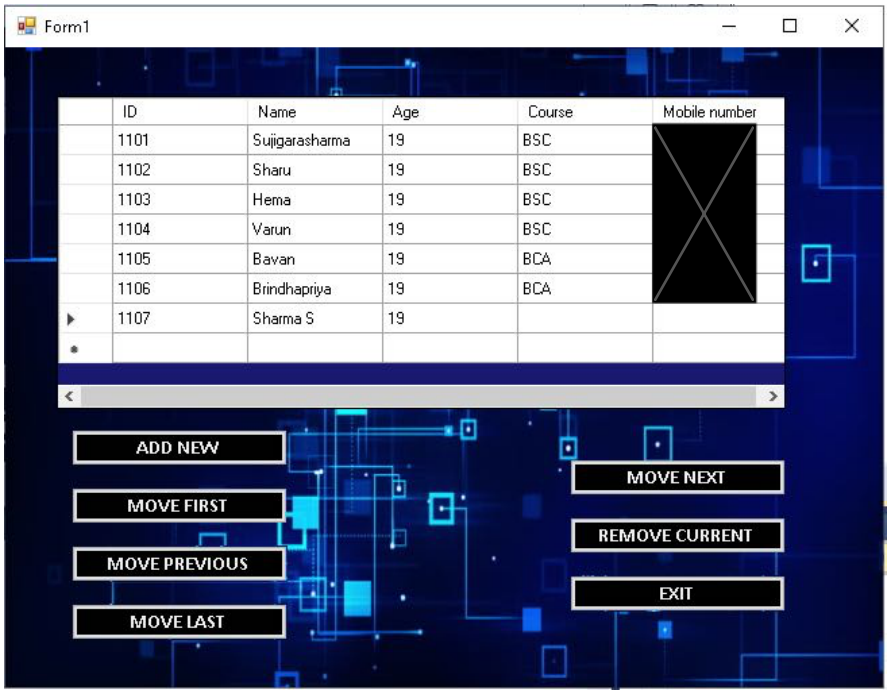
```
Public Class Form1

    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
        'TODO: This line of code loads data into the 'PDDataSet.PD' table. You can
move, or remove it, as needed.
        Me.PDTableAdapter.Fill(Me.PDDataSet.PD)

    End Sub

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
        PDBindingSource.AddNew()
    End Sub


    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click
        PDBindingSource.MoveFirst()
    End Sub


    Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button3.Click
        PDBindingSource.MovePrevious()
    End Sub

    Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button4.Click
        PDBindingSource.MoveLast()
    End Sub

    Private Sub Button5_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button5.Click
        PDBindingSource.MoveNext()
    End Sub


    Private Sub Button6_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button6.Click
        PDBindingSource.RemoveCurrent()
    End Sub

    Private Sub Button7_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button7.Click
        Me.Close()
    End Sub

End Class
```

Program 2- **OUTPUT**

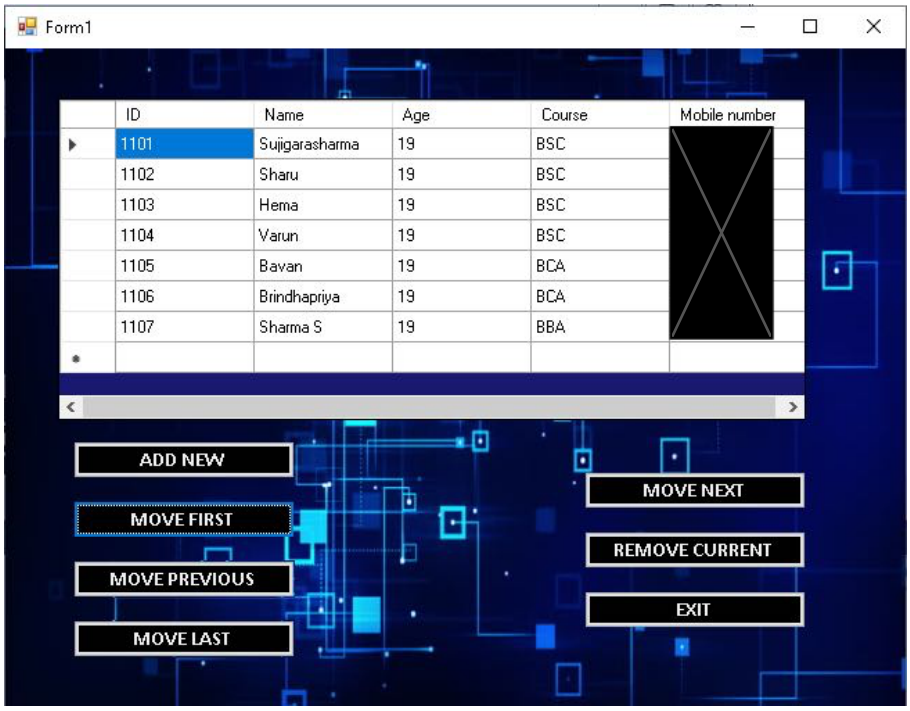




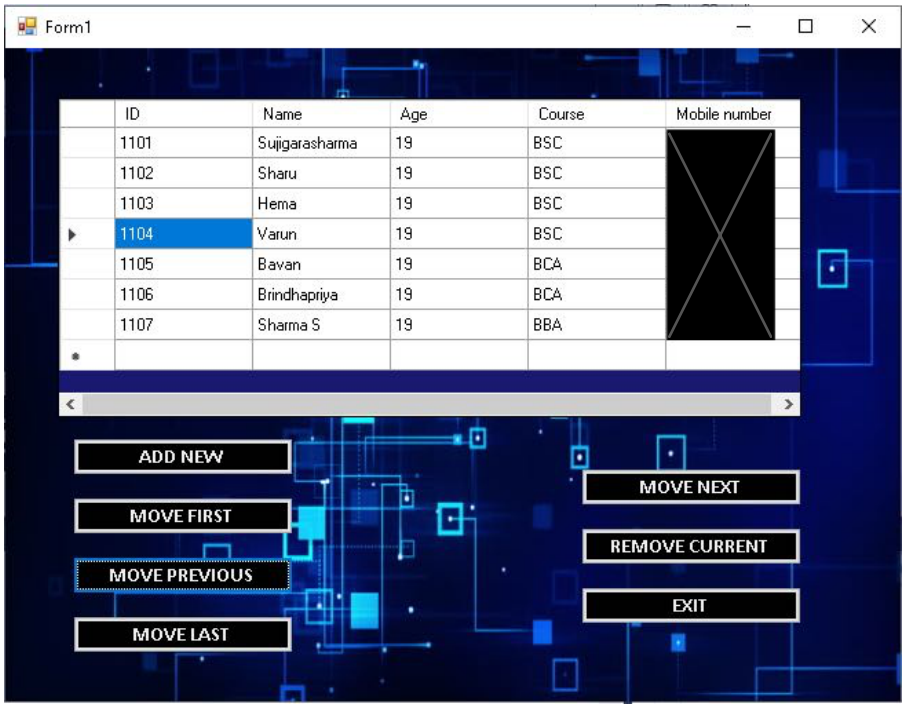
1) ADD NEW



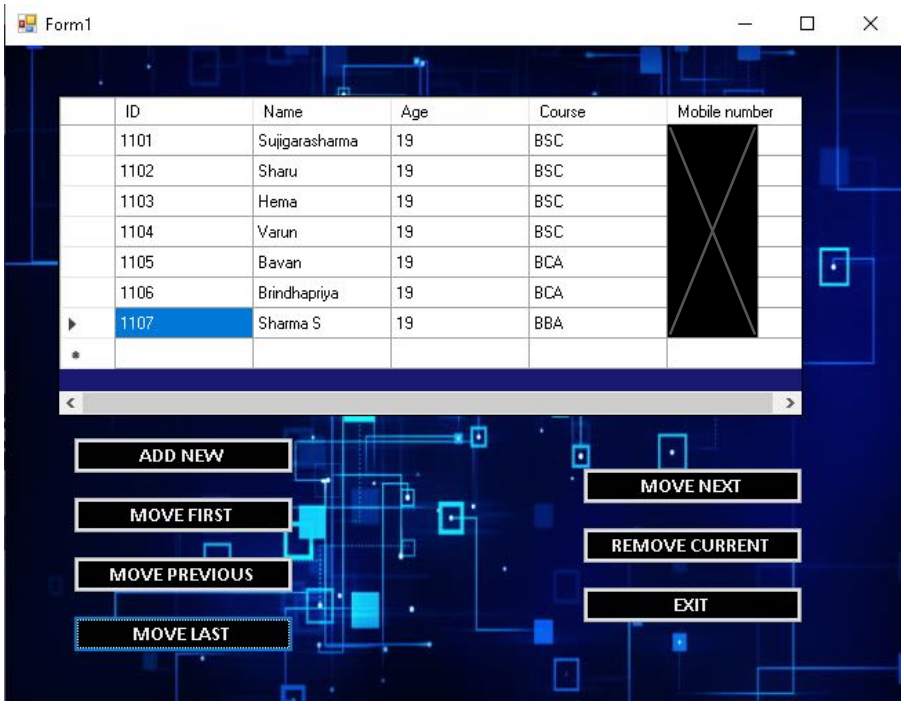
2) MOVE FIRST



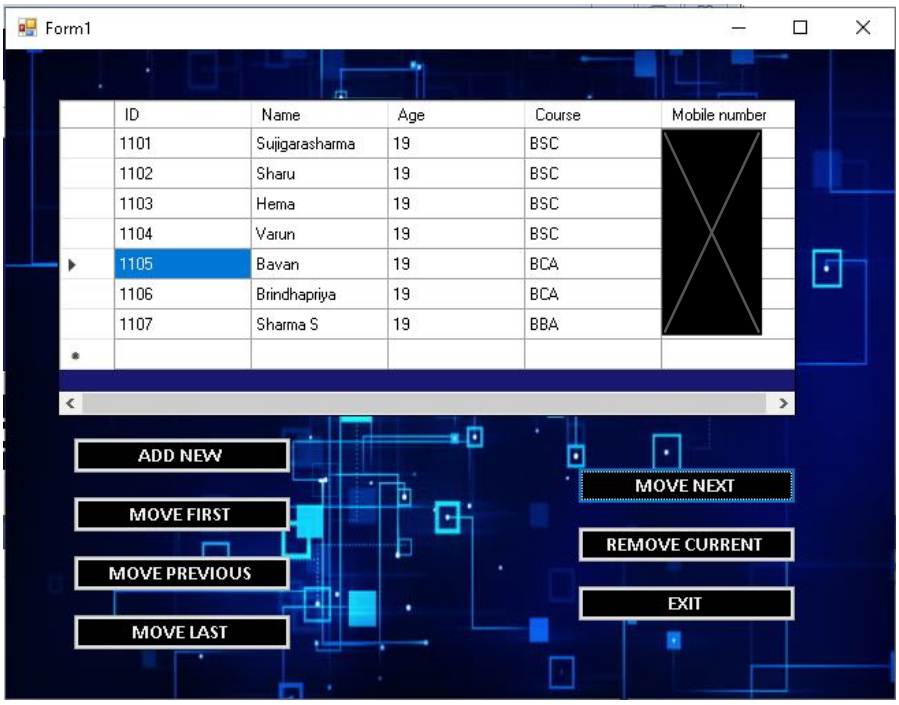
3) MOVE PREVIOUS



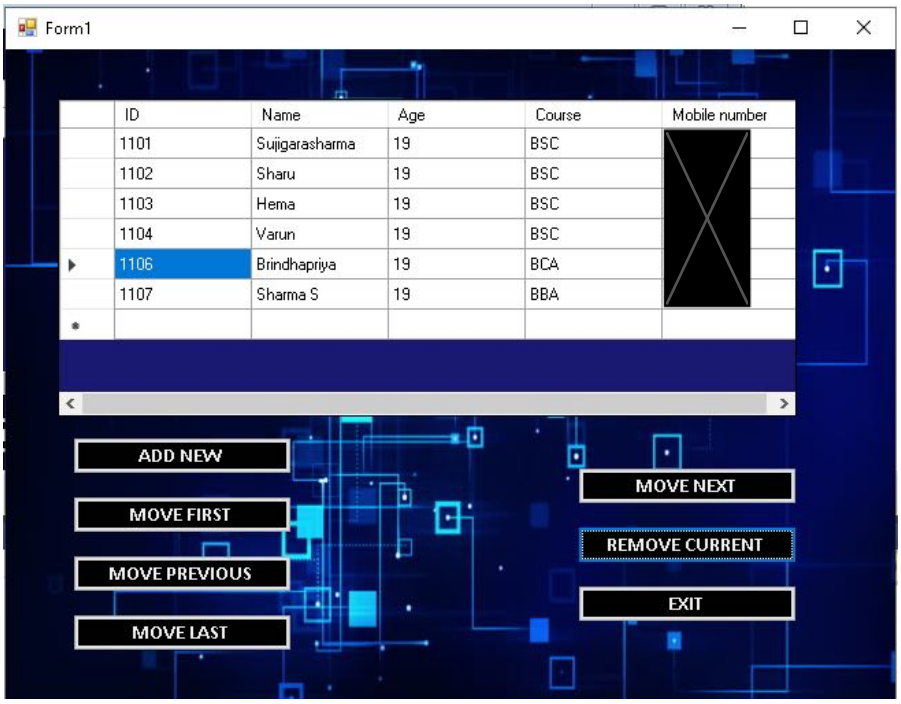
4) MOVE LAST



5) MOVE NEXT



6) REMOVE CURRENT



Result : This design is verified.

Program 3- **QUESTION**

Create VB 2010 automation with Excel .Display the following results in your Excel Worksheet through Visual Basic.

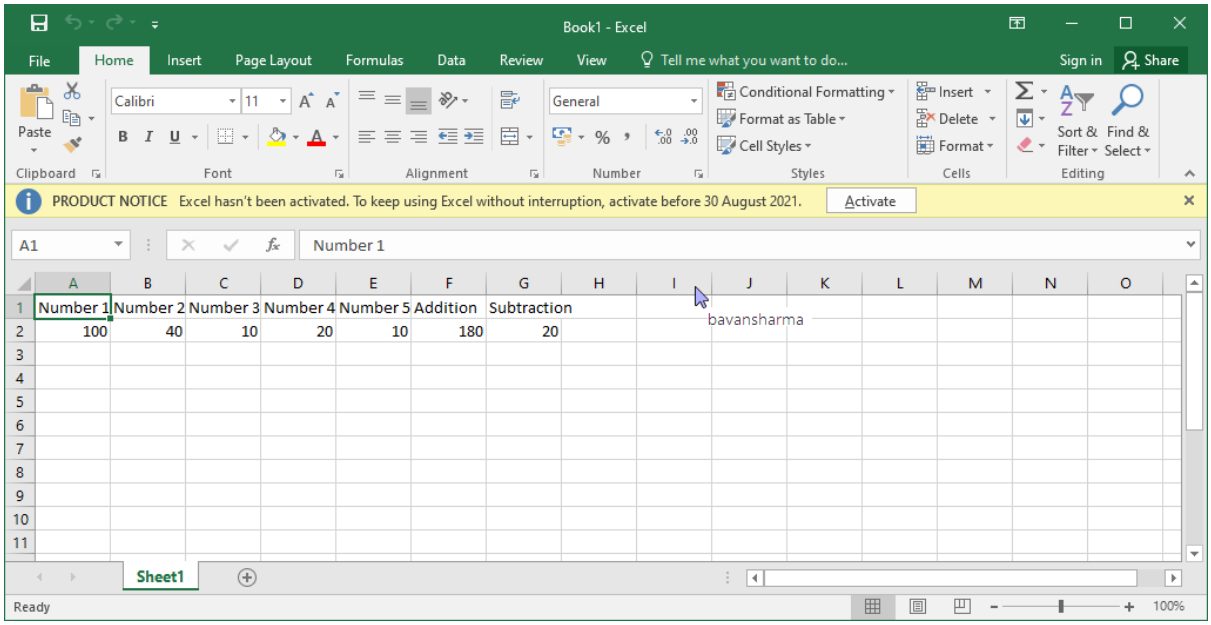
i) Addition of 5 numbers
ii) Subtraction of 5 numbers

Program 3- **DESIGN**

Program 3- **PROCEDURE**

```
Imports Excel = Microsoft.Office.Interop.Excel
Public Class Form1
    Dim obj As Excel.Workbook
    Dim ws As Excel.Worksheet

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
        Dim oXL As Excel.Application
        Dim oWB As Excel.Workbook
        Dim oSheet As Excel.Worksheet
        Dim oRng As Excel.Range
        Dim MyConnection As System.Data.OleDb.OleDbConnection
        Dim myCommand As New System.Data.OleDb.OleDbCommand

        Dim sql As String
        ' Start Excel and get Application object.
        oXL = CreateObject("Excel.Application")
        oXL.Visible = True

        ' Get a new workbook.
        oWB = oXL.Workbooks.Add
        oSheet = oWB.ActiveSheet

        oSheet.Cells(1, 1).Value = "Number 1"
        oSheet.Cells(1, 2).Value = "Number 2"
        oSheet.Cells(1, 3).Value = "Number 3"
        oSheet.Cells(1, 4).Value = "Number 4"
        oSheet.Cells(1, 5).Value = "Number 5"
        oSheet.Cells(1, 6).Value = "Addition"
        oSheet.Cells(1, 7).Value = "Subtraction"

        oSheet.Cells(2, 1).Value = "100"
        oSheet.Cells(2, 2).Value = "40"
        oSheet.Cells(2, 3).Value = "10"
        oSheet.Cells(2, 4).Value = "20"
        oSheet.Cells(2, 5).Value = "10"

        Dim subt As Integer
        subt = oSheet.Cells(2, 1).Value - oSheet.Cells(2, 2).Value - oSheet.Cells(2,
3).Value - oSheet.Cells(2, 4).Value - oSheet.Cells(2, 5).Value
        oSheet.Cells(2, 6).Value = "=SUM(A2:E2)"
        oSheet.Cells(2, 7).Value = subt

        oWB.SaveAs("d:\19BCS0129.xls")
    End Sub
End Class
```

Program 3- **OUTPUT**



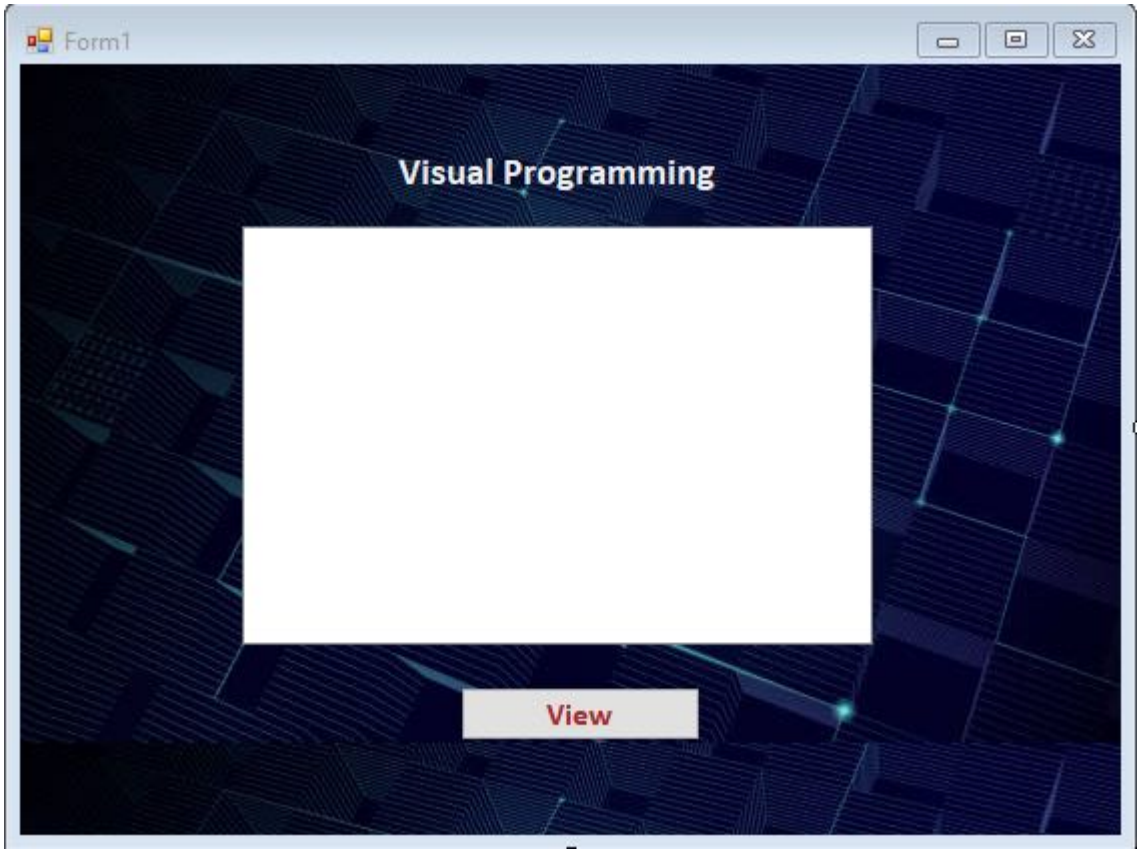
Result : This design is verified.

Program 4- **QUESTION**

Create the following Tree structure using Tree view control. Note: To create nodes and sub nodes use for loop.

All the properties of each control used in your window form should be created by the application you provided,(not by the use of the properties window)through only by the event procedure .

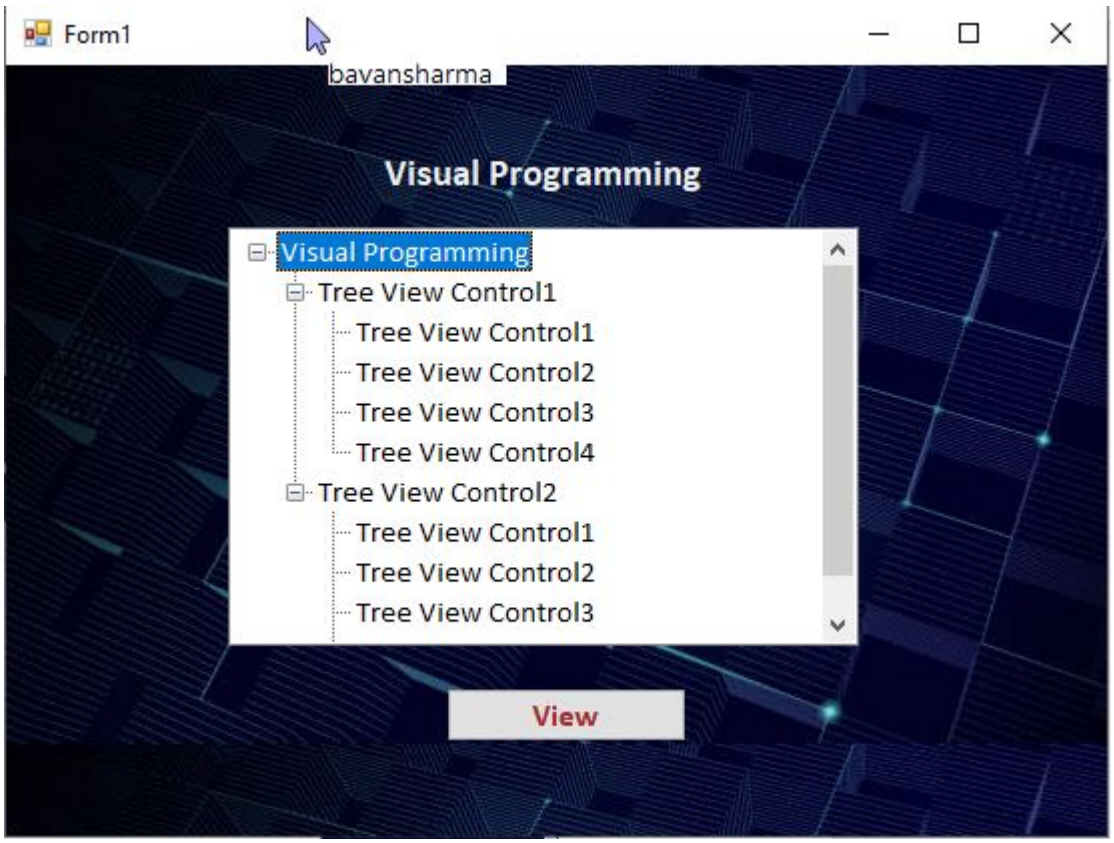
Program 4- **DESIGN**



Program 4- **PROCEDURE**

```
Public Class Form1
    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
        Dim root = New TreeNode("Visual Programming")
        Dim i As Integer
        TreeView1.Nodes.Add(root)

        TreeView1.Nodes(0).Nodes.Add(New TreeNode("Tree View Control1"))
        For i = 1 To 4
          TreeView1.Nodes(0).Nodes(0).Nodes.Add(New TreeNode("Tree View Control" & i)
        Next i
        TreeView1.Nodes(0).Nodes.Add(New TreeNode("Tree View Control2"))
        For i = 1 To 4
          TreeView1.Nodes(0).Nodes(1).Nodes.Add(New TreeNode("Tree View Control" & i))
        Next i

    End Sub
End Class
```

Program 4- **OUTPUT**



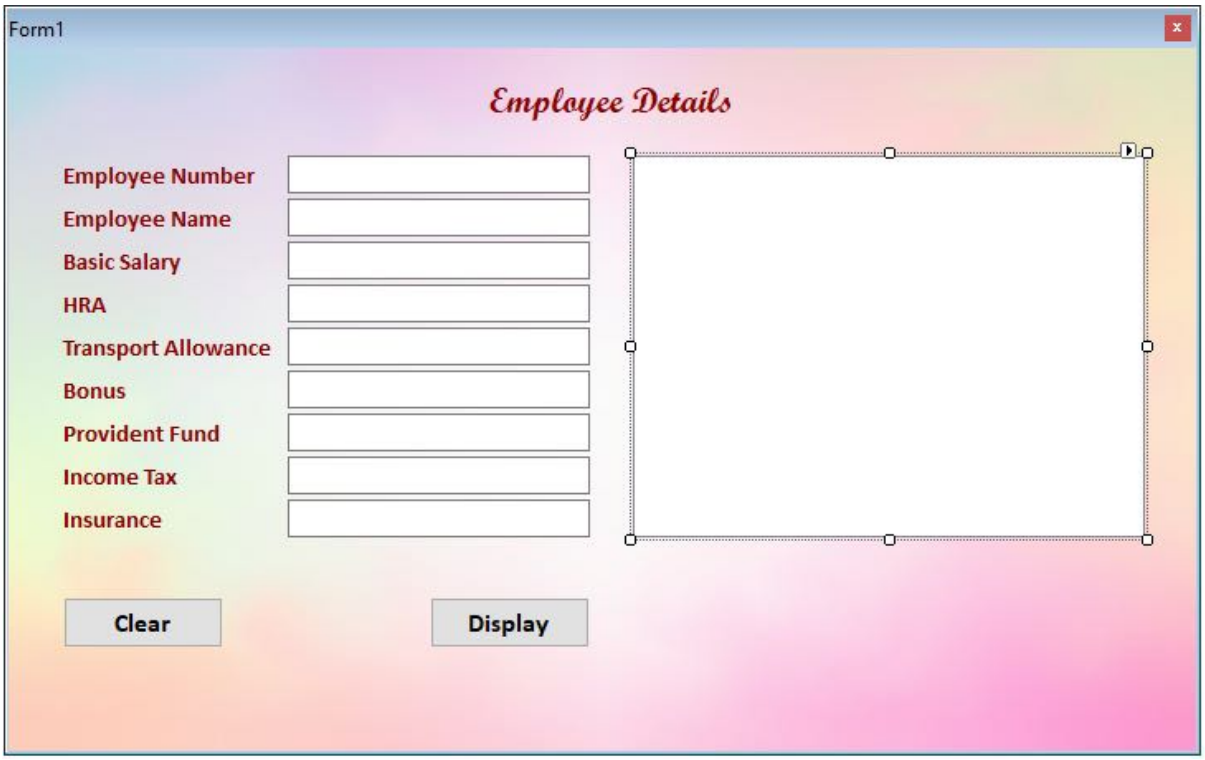
Result : This design is verified.

Program 5- **QUESTION**

Create a VB application for simple payroll system for employees using Textbox controls, Label Controls, Button Controls and List View Controls. Enter all the below information in your textbox controls and display those details in your List View control through textbox controls. Calculate a salary of each employee (Display at least 5 employee details in list view control) by using given formula. All the properties of each control used in your window form should be created by the application you provided through only by the event procedure. (not by the use of the properties window)

Salary = Basic + HRA + Transport Allowance + Bonus – Provident Fund – Income Tax – Insurance

Program 5- **DESIGN**



Program 5- **PROCEDURE**

```
Public Class Form1

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
        Dim s1, s2, s3, s4, s5, s6, s7, salary As Integer

        s1 = TextBox3.Text
        s2 = TextBox4.Text
        s3 = TextBox5.Text
        s4 = TextBox6.Text
        s5 = TextBox7.Text
        s6 = TextBox8.Text
        s7 = TextBox9.Text

        salary = (s1 + s2 + s3 + s4) - (s5 + s6 + s7)

        Dim ListItem1 As ListViewItem
        ListItem1 = ListView1.Items.Add("Number : " & TextBox1.Text)

        Dim ListItem2 As ListViewItem
        ListItem2 = ListView1.Items.Add("Name : " & TextBox2.Text)

        Dim ListItem3 As ListViewItem
        ListItem3 = ListView1.Items.Add("Basic Salary : " & s1)

        Dim ListItem4 As ListViewItem
        ListItem4 = ListView1.Items.Add("HRA : " & s2)

        Dim ListItem5 As ListViewItem
        ListItem5 = ListView1.Items.Add("Transport Allowance : " & s3)

        Dim ListItem6 As ListViewItem
        ListItem6 = ListView1.Items.Add("Bonus : " & s4)

        Dim ListItem7 As ListViewItem
        ListItem7 = ListView1.Items.Add("Provident Fund : " & s5)

        Dim ListItem8 As ListViewItem
        ListItem8 = ListView1.Items.Add("Income Tax : " & s6)

        Dim ListItem9 As ListViewItem
        ListItem9 = ListView1.Items.Add("Insurance : " & s7)

        Dim ListItem10 As ListViewItem
        ListItem10 = ListView1.Items.Add("Salary : " & salary)

    End Sub

    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click
        For Each Control As Control In Me.Controls
            If TypeOf Control Is TextBox Then
                Control.Text = String.Empty
            End If
        Next
    End Sub
End Class
```

Program 5- **OUTPUT**

Result : This design is verified.

Program 6- **QUESTION**

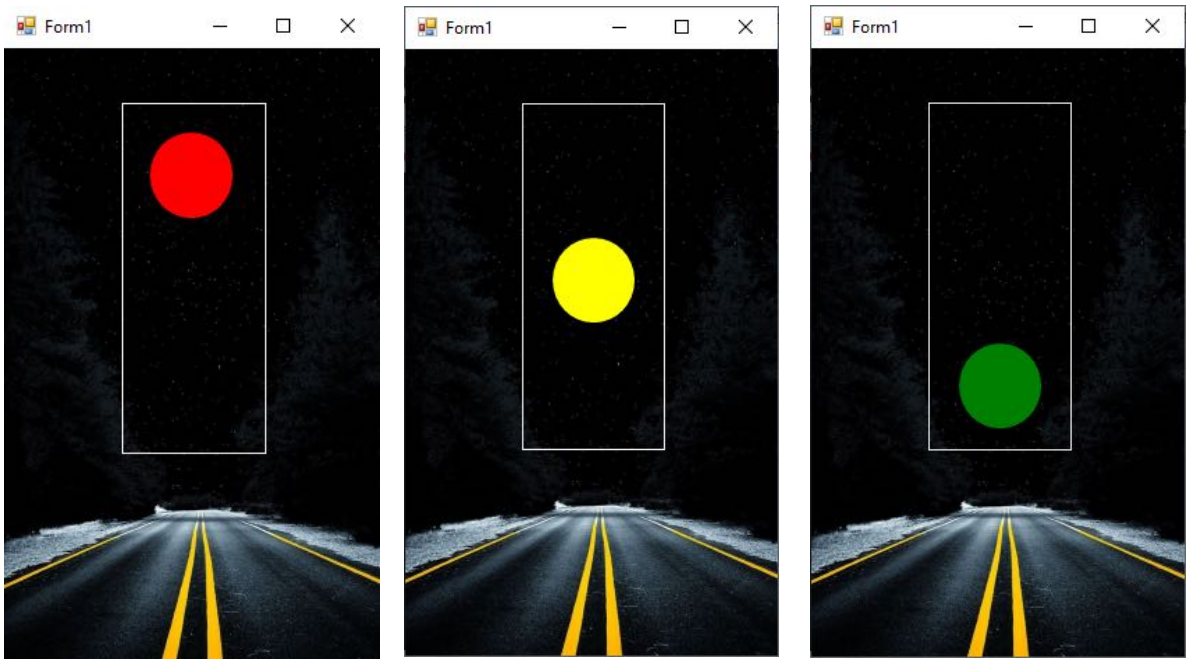
Design the VB application for traffic control signal using rectangular shape and timer control. Use if statement to display yellow, green, and red Circle shapes in your window form at every 1000ms. All the properties of each control used in your window form should be created by the application you provided (not by the use of the properties window) through only by the event procedure.

Program 6- **DESIGN**

Program 6- **PROCEDURE**

```
Public Class Form1

    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Timer1.Tick, MyBase.Load
        If OvalShape1.Visible Then
            OvalShape1.Visible = False
            OvalShape2.Visible = True
            OvalShape3.Visible = False
        ElseIf OvalShape2.Visible Then
            OvalShape1.Visible = False
            OvalShape2.Visible = False
            OvalShape3.Visible = True
        ElseIf OvalShape3.Visible Then
            OvalShape1.Visible = True
            OvalShape2.Visible = False
            OvalShape3.Visible = False
        End If
    End Sub


End Class
```

Program 6- **OUTPUT**

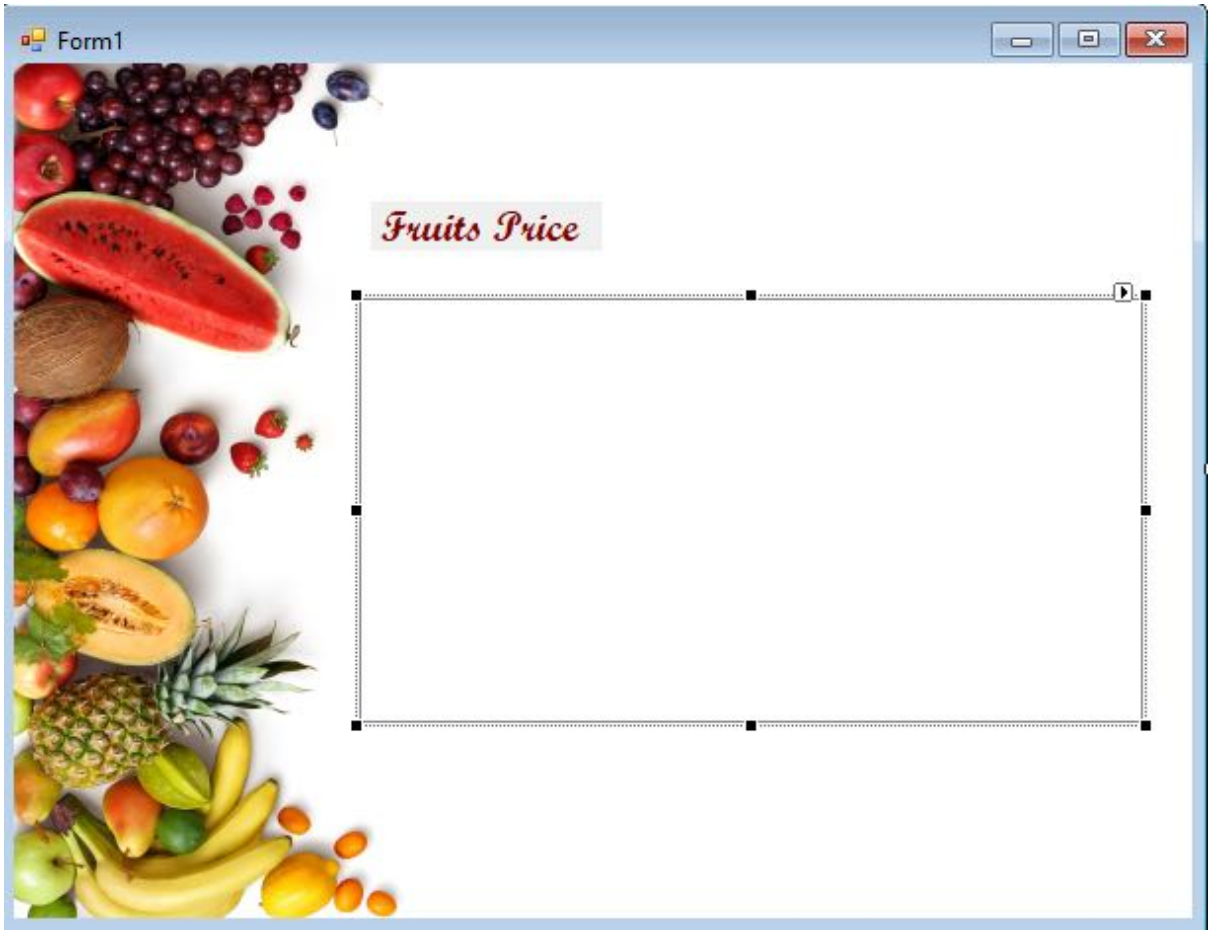


Result : This design is verified.

Program 7- **QUESTION**

Design a VB application to display the following information in the List View Control . Enter all the details below in the text box control and display the details below in the list view controls via the text box controls. . All the properties of each control used in your window form should be created by the application you provided (not by the use of the properties window) through only by the event procedure.

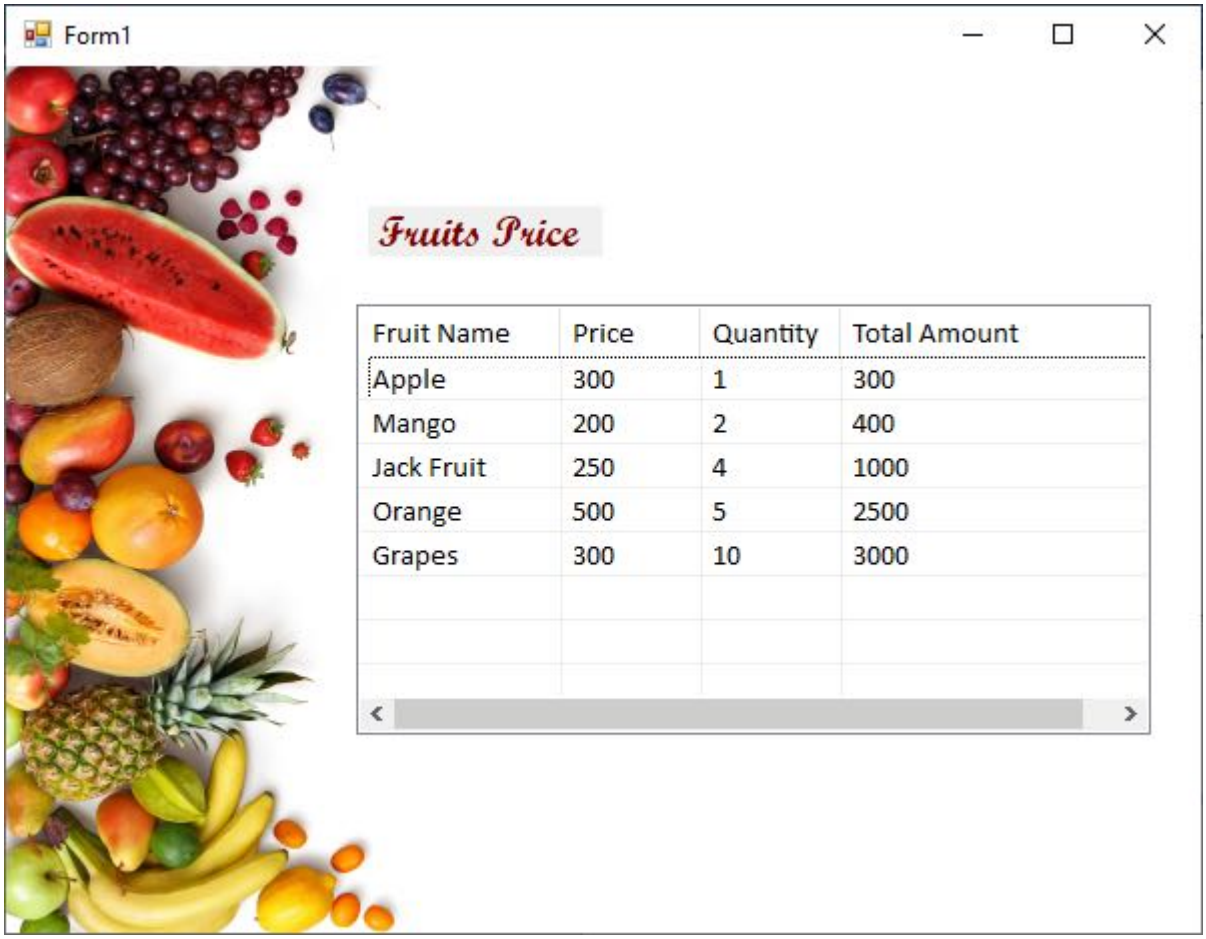
Program 7- **DESIGN**



Program 7- **PROCEDURE**

```
Public Class Form1

    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
        ListView1.View = View.Details
        ListView1.GridLines = True
        ListView1.FullRowSelect = True

        ListView1.Columns.Add("Fruit Name", 100)
        ListView1.Columns.Add("Price", 70)
        ListView1.Columns.Add("Quantity", 70)
        ListView1.Columns.Add("Total Amount", 170)

        Dim list(6) As String
        Dim item As ListViewItem

        list(0) = "Apple"
        list(1) = "300"
        list(2) = "1"
        list(3) = "300"
        item = New ListViewItem(list)
        ListView1.Items.Add(item)

        list(0) = "Mango "
        list(1) = "200"
        list(2) = "2"
        list(3) = "400"
        item = New ListViewItem(list)
        ListView1.Items.Add(item)

        list(0) = "Jack Fruit "
        list(1) = "250"
        list(2) = "4"
        list(3) = "1000"
        item = New ListViewItem(list)
        ListView1.Items.Add(item)

        list(0) = "Orange "
        list(1) = "500"
        list(2) = "5"
        list(3) = "2500"
        item = New ListViewItem(list)
        ListView1.Items.Add(item)

        list(0) = "Grapes "
        list(1) = "300"
        list(2) = "10"
        list(3) = "3000"
        item = New ListViewItem(list)
        ListView1.Items.Add(item)

    End Sub
End Class
```

Program 7- **OUTPUT**



Result : This design is verified.

Question 8 Next Page……

Program 8.1- **QUESTION**

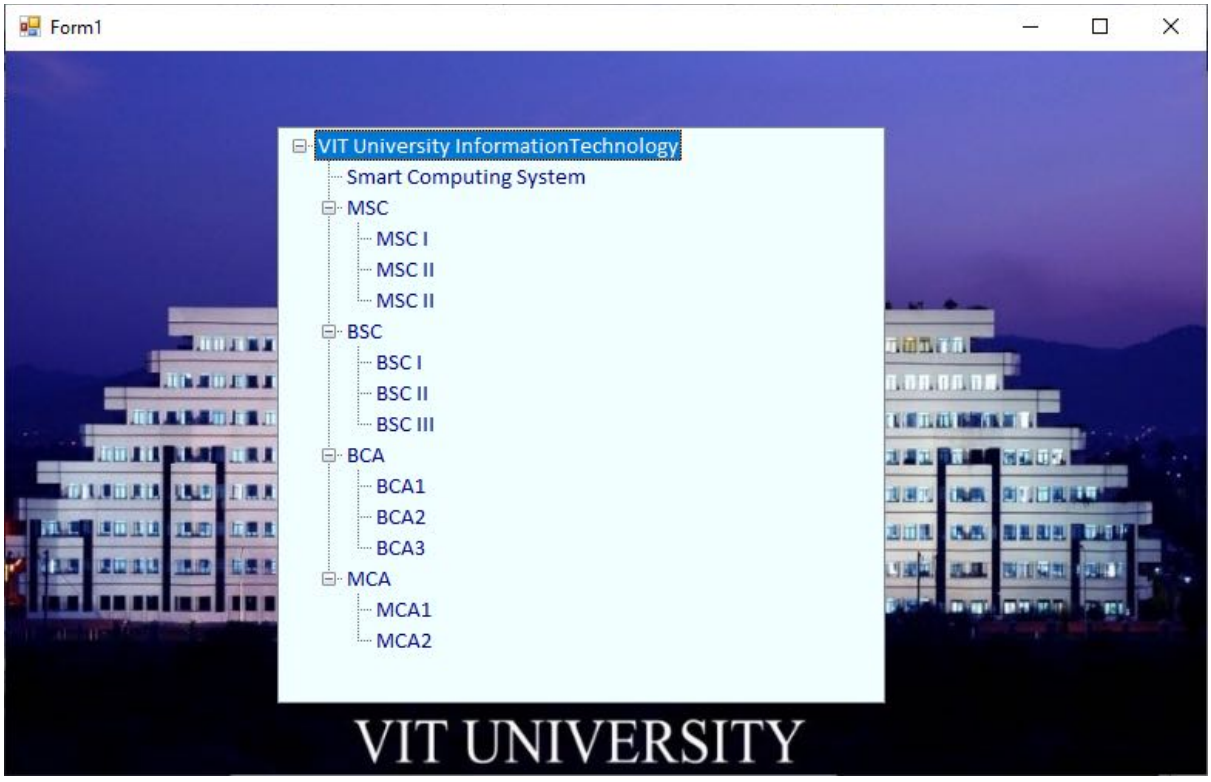
Write a VB 2010 program to generate Sample Tree View control shown in the following form. All the properties of each control used in your window form should be created by the application you provided (not by the use of the properties window) through only by the event procedure.

Program 8.1- **DESIGN**

Program 8.1- **PROCEDURE**

```
Public Class Form1

    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
        Dim tNode As TreeNode
        tNode = TreeView1.Nodes.Add("VIT University InformationTechnology")

        TreeView1.Nodes(0).Nodes.Add("Smart Computing System ")
        TreeView1.Nodes(0).Nodes.Add("MSC")
        TreeView1.Nodes(0).Nodes(1).Nodes.Add("MSC I")
        TreeView1.Nodes(0).Nodes(1).Nodes.Add("MSC II")
        TreeView1.Nodes(0).Nodes(1).Nodes.Add("MSC II")
        TreeView1.Nodes(0).Nodes.Add("BSC")
        TreeView1.Nodes(0).Nodes(2).Nodes.Add("BSC I")
        TreeView1.Nodes(0).Nodes(2).Nodes.Add("BSC II")
        TreeView1.Nodes(0).Nodes(2).Nodes.Add("BSC III")
        TreeView1.Nodes(0).Nodes.Add("BCA")
        TreeView1.Nodes(0).Nodes(3).Nodes.Add("BCA1")
        TreeView1.Nodes(0).Nodes(3).Nodes.Add("BCA2")
        TreeView1.Nodes(0).Nodes(3).Nodes.Add("BCA3")
        TreeView1.Nodes(0).Nodes.Add("MCA")
        TreeView1.Nodes(0).Nodes(4).Nodes.Add("MCA1")
        TreeView1.Nodes(0).Nodes(4).Nodes.Add("MCA2")
    End Sub
End Class
```

Program 8.1- **OUTPUT**

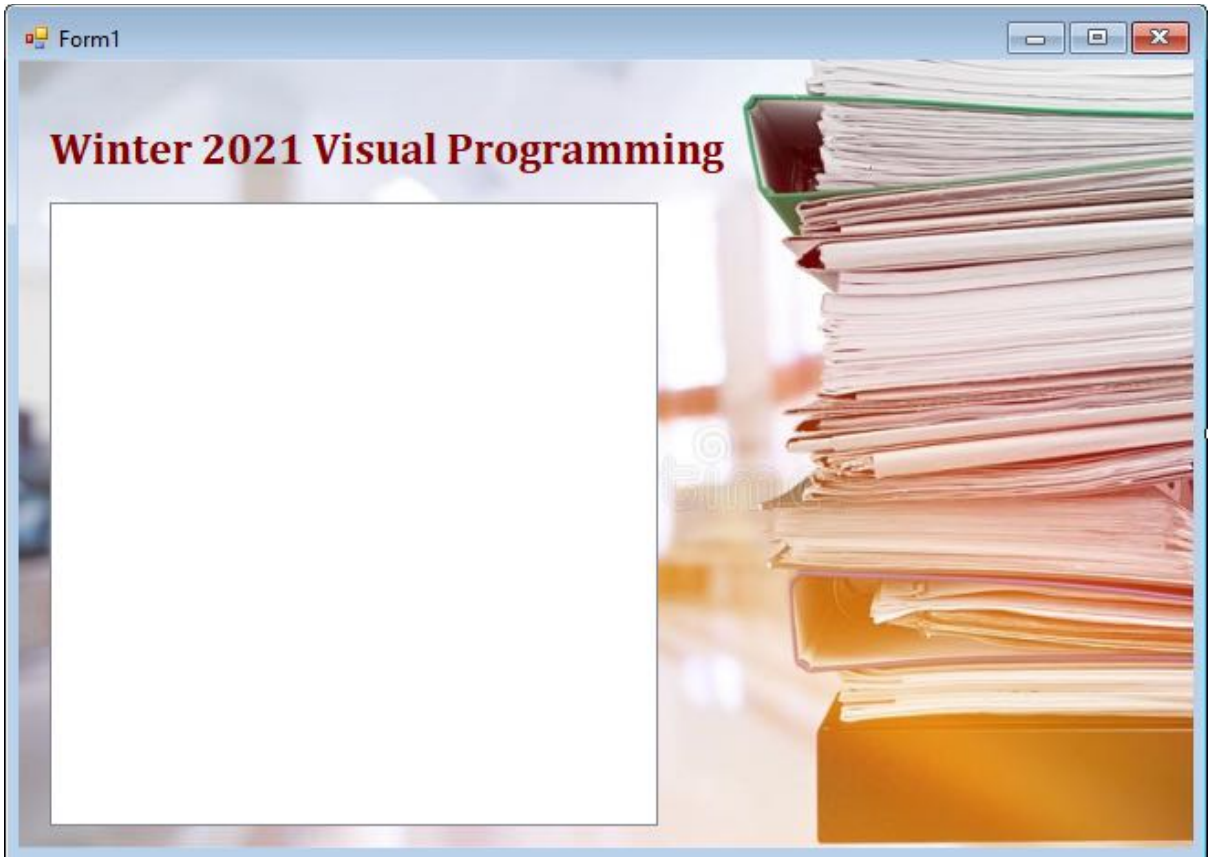


Result : This design is verified.

Program 8.2- **QUESTION**

Write a VB 2010 program to generate Sample Tree View control shown in the following form. All the properties of each control used in your window form should be created by the application you provided (not by the use of the properties window) through only by the event procedure.

Program 8.2- **DESIGN**



Program 8.2- **PROCEDURE**

```
Public Class Form1

    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
        Dim tNode As TreeNode
        tNode = TreeView1.Nodes.Add("Desktop")
        TreeView1.Nodes(0).Nodes.Add(" Winter 2021 Visual Programming")
        TreeView1.Nodes(0).Nodes.Add("Assignments")
        TreeView1.Nodes(0).Nodes(1).Nodes.Add("DA1")
        TreeView1.Nodes(0).Nodes(1).Nodes.Add("DA2")
        TreeView1.Nodes(0).Nodes(1).Nodes.Add("DA3")
        TreeView1.Nodes(0).Nodes.Add("Test")
        TreeView1.Nodes(0).Nodes(2).Nodes.Add("Test 1")
        TreeView1.Nodes(0).Nodes(2).Nodes.Add("Test 2")
        TreeView1.Nodes(0).Nodes.Add("Quiz")
        TreeView1.Nodes(0).Nodes(3).Nodes.Add("Quiz1")
        TreeView1.Nodes(0).Nodes(3).Nodes.Add("Quiz2")
        TreeView1.Nodes(0).Nodes(3).Nodes.Add("Quiz3")
        TreeView1.Nodes(0).Nodes.Add("Problem Solving")
        TreeView1.Nodes(0).Nodes(4).Nodes.Add("PS1")
        TreeView1.Nodes(0).Nodes(4).Nodes.Add("PS2")
    End Sub
End Class
```

Program 8.2- **OUTPUT**

Result : This design is verified.