

**REG NO** : **19BCS0012**

**NAME** : **NITHISH G**

**COURSE CODE** : **CSC3004**

**COURSE** : **VISUAL PROGRAMMING**

**DATE** : **24.04.2021**

1. 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

## Input Form Design

19BCS0012 NITHISH G

Reg no .	Name	Age	Gender	Address	Total no. of credits	City	State	Country
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

## Event Procedures

```
Public Class Form1
```

```
    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)  
Handles MyBase.Load
```

```
        ListView1.View = View.Details ' Display the List in details  
        ListView1.GridLines = True ' Set the Grid lines
```

```
        ListView1.Columns.Add("ROLL NO", 70, HorizontalAlignment.Center)  
        ListView1.Columns.Add("NAME", 100, HorizontalAlignment.Center)  
        ListView1.Columns.Add("AGE", 100, HorizontalAlignment.Center)  
        ListView1.Columns.Add("GENDER", 100, HorizontalAlignment.Center)  
        ListView1.Columns.Add("ADDRESS", 100, HorizontalAlignment.Center)  
        ListView1.Columns.Add("TOTAL NO. OF CREDITS", 140, HorizontalAlignment.Center)  
        ListView1.Columns.Add("CITY", 100, HorizontalAlignment.Center)  
        ListView1.Columns.Add("STATE", 100, HorizontalAlignment.Center)  
        ListView1.Columns.Add("COUNTRY", 100, HorizontalAlignment.Center)
```

```
    End Sub
```

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

```
        Dim Array(9) As String  
        Dim itm As ListViewItem  
        Array(0) = TextBox1.Text 'Accept value from the user.  
        Array(1) = TextBox2.Text  
        Array(2) = TextBox3.Text  
        Array(3) = TextBox4.Text  
        Array(4) = TextBox5.Text  
        Array(5) = TextBox6.Text  
        Array(6) = TextBox7.Text  
        Array(7) = TextBox8.Text  
        Array(8) = TextBox9.Text
```

```
        itm = New ListViewItem(Array)  
        ListView1.Items.Add(itm)
```

```
    End Sub
```

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

```
        TextBox1.Text = " "  
        TextBox2.Text = " "  
  
        TextBox3.Text = " "  
        TextBox4.Text = " "  
        TextBox5.Text = " "  
        TextBox6.Text = " "  
        TextBox7.Text = " "  
        TextBox8.Text = " "  
        TextBox9.Text = " "
```

```
    End Sub
```

```

Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button3.Click
    Me.Close()

End Sub
End Class

```

## OUTPUT FORM

The screenshot shows a Visual Basic application window titled "19BCS0012 NITHISH G". Inside the window, there is a table with the following data:

ROLL NO	NAME	AGE	GENDER	ADDRESS	TOTAL NO. OF CRE...	CITY	STATE	COUNTRY
19BCS0012	NITHISHG	18	MALE	13A,ANNA S...	24	VELLORE	TAMILNADU	INDIA
19BCS0013	ZACK	18	MALE	14A,ANNA S...	24	VELLORE	TAMIL NADU	INDIA
19BCS0014	ARAVIND	19	MALE	15A,ANNA S...	24	ABC	KERALA	INDIA
19BCS0015	MANI	19	MALE	15A,ANNA S...	24	VELLORE	TAMIL NADU	INDIA
19BCS0017	RANI	19	FEMALE	17A,ANNA S...	24	VELLORE	TAMILNADU	INDIA

Below the table, there is a form with the following fields and buttons:

Reg no .	Name	Age	Gender	Address	Total no. of credits	City	State	Country
19BCSS0019	RAJESH	21	MALE	3A,ANNA STREET	24	VELLORE	TAMIL	INDIA

At the bottom of the form, there are three buttons: CLEAR, ADD ENTRY, and EXIT.

## Output Form

2. 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

## Form design

Form1

0 of {0}

Student ID:

Student Name:

Student Grade:

Student DOB: 02 May 2021

Student Age:

	Student ID	Student Name	Student Grade	Student DOB
*				

## FIRST

19BCS0012 NITHISH

1 of 4

Student ID: 19BCS0012

Student Name: NITHISH

Student Grade: 12

Student DOB: 04 February 2002

Student Age: 19

	Student ID	Student Name	Student Grade	Student DOB
▶	19BCS0012	NITHISH	12	04-02-2002
	19BCS0014	ARUN	5	13-03-2013
	19BCS0013	SUNNY	10	21-01-2003
	19BCS0016	JAMESH	10	20-02-2004
*				

## ADD

19BCS0012 NITHISH

5 of 5

Student ID: 19BCS0038

Student Name: SEYA PRAKASH

Student Grade: 11

Student DOB: 16 February 2002

Student Age: 17

	Student ID	Student Name	Student Grade	Student DOB
	19BCS0012	NITHISH	12	04-02-2002
	19BCS0014	ARUN	5	13-03-2013
	19BCS0013	SUNNY	10	21-01-2003
	19BCS0016	JAMESH	10	20-02-2004
▶	19BCS0038	SEYA PRAKASH	11	16-02-2002
*				

## JAMES DELTED

19BCS0012 NITHISH

3 of 4

Student ID: 19BCS0016

Student Name: JAMESH

Student Grade: 10

Student DOB: 20 February 2004

Student Age: 17

	Student ID	Student Name	Student Grade	Student DOB
	19BCS0012	NITHISH	12	04-02-2002
	19BCS0014	ARUN	5	13-03-2013
▶	19BCS0016	JAMESH	10	20-02-2004
	19BCS0038	SEYA PRAKASH	11	16-02-2002
*				



## With Event Procedure

### Form design

Student ID	Student Name	Student Grade	Student DOB	Student Age
*				

```
Imports System.Data
```

```
Imports System.Data.OleDb
```

```
Public Class Form1
```

```
'Change C: to the location of your database file.
```

```
Dim connString As String = "Provider=Microsoft.Jet.OLEDB.4.0;Data  
Source=C:\Users\OMEN\Downloads\Database2.mdb"
```

```
Dim tables As DataTableCollection
```

```
Dim source As New BindingSource
```

```
Dim connectionString As String
```

```
Dim objconnection As New OleDbConnection
```

```
Dim objDataSet As New DataSet()
```

```
Dim objDataAdapter As New OleDbDataAdapter
```

```
Dim objDataView As DataView
```

```
Dim objCurrencyManager As CurrencyManager
```

```
Dim querystr As String
```

```
Dim cmd As New OleDbCommand
```

```
Dim rw As DataRow
```

```
Dim register As String
```

```
Dim fname As String
```

```
Dim school As String
```

```
Dim branch As String
```

```
Dim DOB As String
```

```
Dim Hosteler As String
```

```
Private Sub Form1_Load_1(ByVal sender As System.Object, ByVal e As System.EventArgs)  
Handles MyBase.Load
```

```
'TODO: This line of code loads data into the 'Student_Data_BaseDataSet.sdt' table.  
You can move, or remove it, as needed.
```

```
Me.SdtTableAdapter.Fill(Me.Student_Data_BaseDataSet.sdt)
```

```

        connectionString = "Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=C:\Users\OMEN\Downloads\Database2.mdb"
        objconnection = New OleDbConnection(connectionString)

    Try
        objconnection.Open()
        MsgBox("Connection Open ! ")
        objconnection.Close()
    Catch ex As Exception
        MsgBox("Can not open connection ! ")
    End Try

    querystr = "SELECT * from Table1;"
    cmd = New OleDbCommand(querystr, objconnection)
    objDataAdapter.SelectCommand = cmd

    objDataAdapter.Fill(objDataSet, "Table1")

    objDataView = New DataView(objDataSet.Tables("Table1"))
    objCurrencyManager = CType(Me.BindingContext(objDataView), CurrencyManager)

    TextBox1.DataBindings.Clear()
    TextBox2.DataBindings.Clear()
    TextBox3.DataBindings.Clear()
    TextBox4.DataBindings.Clear()
    TextBox5.DataBindings.Clear()

    TextBox1.DataBindings.Add("Text", objDataView, "Student ID")
    TextBox2.DataBindings.Add("Text", objDataView, "Student Name")
    TextBox3.DataBindings.Add("Text", objDataView, "Student Grade")
    TextBox4.DataBindings.Add("Text", objDataView, "Student DOB")
    TextBox5.DataBindings.Add("Text", objDataView, "Student Age")

    ShowPosition()

    objconnection = New OleDbConnection
    objconnection.ConnectionString = connString
    objDataSet = New DataSet
    tables = objDataSet.Tables
    objDataAdapter = New OleDbDataAdapter("Select * from Table1;", objconnection)
    objDataAdapter.Fill(objDataSet, "Table1")
    Dim view As New DataView(tables(0))
    source.DataSource = view
    DataGridView1.DataSource = view
    source.DataSource = view
    DataGridView1.DataSource = view

End Sub

Private Sub ShowPosition()
    ' Display the current position and the number of records
    TextBox3.Text = objCurrencyManager.Position + 1 & " of " &
objCurrencyManager.Count()
End Sub

Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button2.Click
    ' Move to the previous record..

```

```

        objCurrencyManager.Position -= 1
        ' Show the current record position..
        ShowPosition()
    End Sub

    Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button4.Click
        ' Set the record position to the first record..
        objCurrencyManager.Position = 0
        ' Show the current record position..
        ShowPosition()
    End Sub

    Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button3.Click
        ' Move to the next record..
        objCurrencyManager.Position += 1
        ' Show the current record position..
        ShowPosition()

    End Sub

    Private Sub Button6_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button6.Click
        ' Set the record position to the last record..
        objCurrencyManager.Position = objCurrencyManager.Count - 1
        ' Show the current record position..
        ShowPosition()

    End Sub

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

        End End Sub

    Private Sub SdtBindingNavigatorSaveItem_Click(ByVal sender As System.Object, ByVal e
As System.EventArgs)
        Me.Validate()
        Me.SdtBindingSource.EndEdit()
        Me.TableAdapterManager.UpdateAll(Me.Student_Data_BaseDataSet)

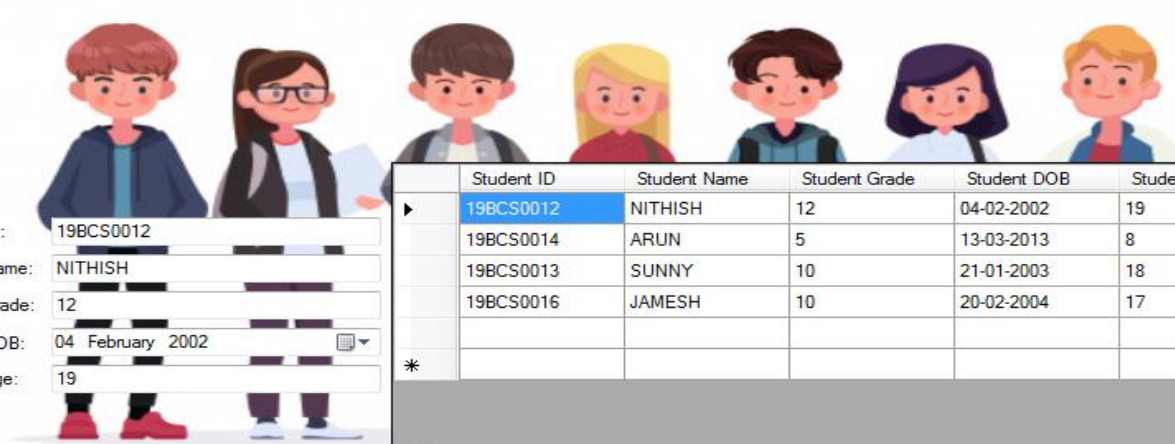
    End Sub
End Class

```



## Output

19BCS0012 NITHISH G

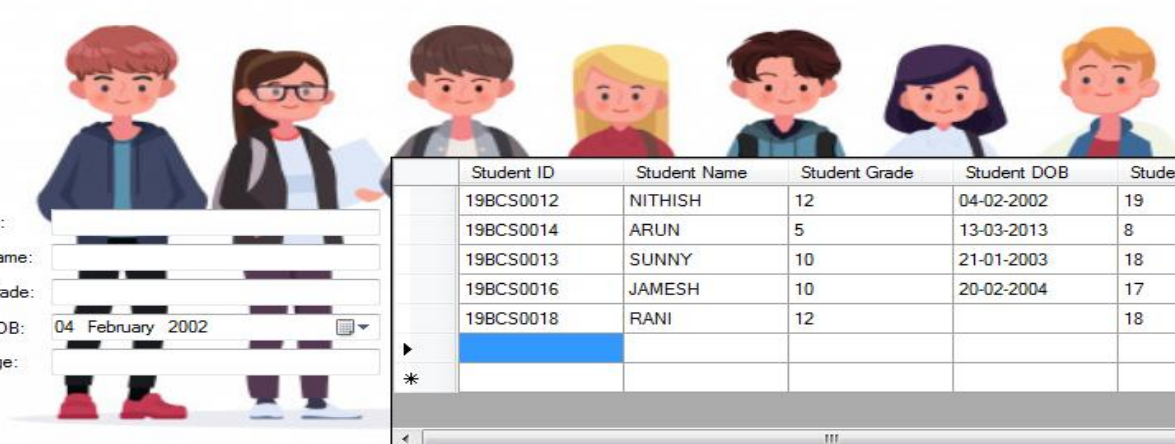


Student ID: 19BCS0012  
Student Name: NITHISH  
Student Grade: 12  
Student DOB: 04 February 2002  
Student Age: 19

	Student ID	Student Name	Student Grade	Student DOB	Student Age
▶	19BCS0012	NITHISH	12	04-02-2002	19
	19BCS0014	ARUN	5	13-03-2013	8
	19BCS0013	SUNNY	10	21-01-2003	18
	19BCS0016	JAMESH	10	20-02-2004	17
*					

ADD NEXT FIRST LAST PREVIOUS Delete

19BCS0012 NITHISH G

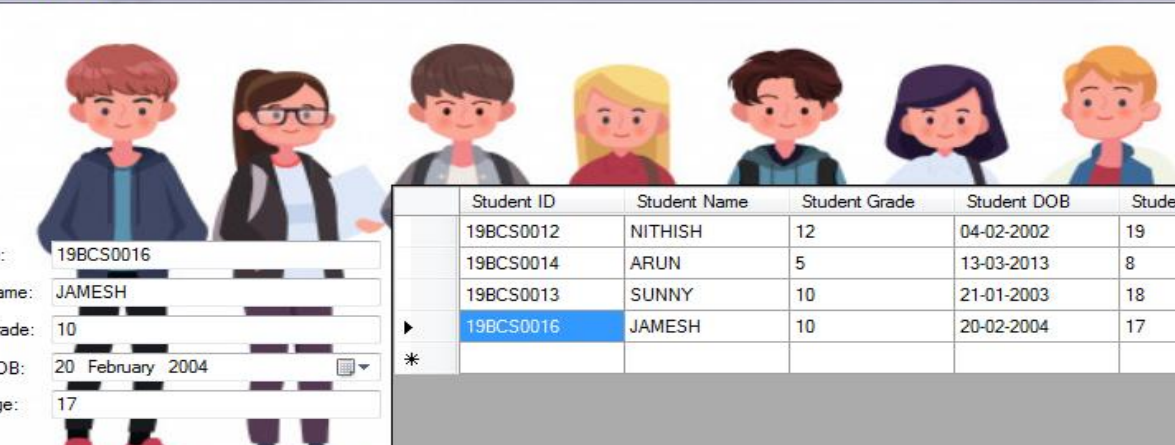


Student ID:   
Student Name:   
Student Grade:   
Student DOB: 04 February 2002  
Student Age:

	Student ID	Student Name	Student Grade	Student DOB	Student Age
	19BCS0012	NITHISH	12	04-02-2002	19
	19BCS0014	ARUN	5	13-03-2013	8
	19BCS0013	SUNNY	10	21-01-2003	18
	19BCS0016	JAMESH	10	20-02-2004	17
▶	19BCS0018	RANI	12		18
*					

ADD NEXT FIRST LAST PREVIOUS Delete

19BCS0012 NITHISH G



Student ID: 19BCS0016  
Student Name: JAMESH  
Student Grade: 10  
Student DOB: 20 February 2004  
Student Age: 17

	Student ID	Student Name	Student Grade	Student DOB	Student Age
	19BCS0012	NITHISH	12	04-02-2002	19
	19BCS0014	ARUN	5	13-03-2013	8
	19BCS0013	SUNNY	10	21-01-2003	18
▶	19BCS0016	JAMESH	10	20-02-2004	17
*					

ADD NEXT FIRST LAST PREVIOUS Delete

## Next button

Student ID	Student Name	Student Grade	Student DOB	Student Age
19BCS0012	NITHISH	12	04-02-2002	19
19BCS0014	ARUN	5	13-03-2013	8
19BCS0013	SUNNY	10	21-01-2003	18
19BCS0016	JAMESH	10	20-02-2004	17

Student ID: 19BCS0013  
Student Name: SUNNY  
Student Grade: 10  
Student DOB: 21 January 2003  
Student Age: 18

ADD NEXT FIRST LAST PREVIOUS Delete

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

- Addition of 5 numbers
- Subtraction of 5 numbers

## Form Design :

*ADDITION AND SUBTRATION OF 5 NUMBERS IN EXCEL*

Calculate on Excel

+

-

## Event Procedures:

```
Imports Excel = Microsoft.Office.Interop.Excel
```

```
Public Class Form1
```

```
    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)  
Handles MyBase.Load
```

```
End Sub
```

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

```
        Dim obj As Excel.Workbook
```

```
        Dim ws As Excel.Worksheet
```

```
        Dim oXL As Excel.Application
```

```
        Dim oWB As Excel.Workbook
```

```
        Dim oSheet As Excel.Worksheet
```

```
        Dim oRng As Excel.Range
```

```
oXL = CreateObject("Excel.Application")
```

```
oXL.Visible = True
```

```
oWB = oXL.Workbooks.Add
```

```
oSheet = oWB.ActiveSheet
```

```
With oSheet
```

```
    'HEADER:
```

```
    .Cells(1, 3).Value = "ADDITION AND SUBTRACTION OF 5 NUMBERS"
```

```
    'LABELS
```

```
    .Cells(3, 3).Value = "1st No."
```

```
    .Cells(3, 4).Value = "2nd No."
```

```
    .Cells(3, 5).Value = "3rd No."
```

```
    .Cells(3, 6).Value = "4th No."
```

```
    .Cells(3, 7).Value = "5th No."
```

```
    .Cells(7, 4).Value = "ADDITON (+)"
```

```
    .Cells(8, 4).Value = "SUBTRACTION (-)"
```

```
    'VALUES
```

```
    .Cells(4, 3).Value = "140"
```

```
    .Cells(4, 4).Value = "40"
```

```
    .Cells(4, 5).Value = "30"
```

```
    .Cells(4, 6).Value = "40"
```

```
    .Cells(4, 7).Value = "10"
```

```
    'TO CALCULATE ADDITION:
```

```
oRng = oSheet.Range("F7")
```

```
oRng.Formula = "=SUM(C4+D4+E4+F4+G4)"
```

```
    'TO CALCULATE SUBTRACTION:
```

```
oRng = oSheet.Range("F8")
```

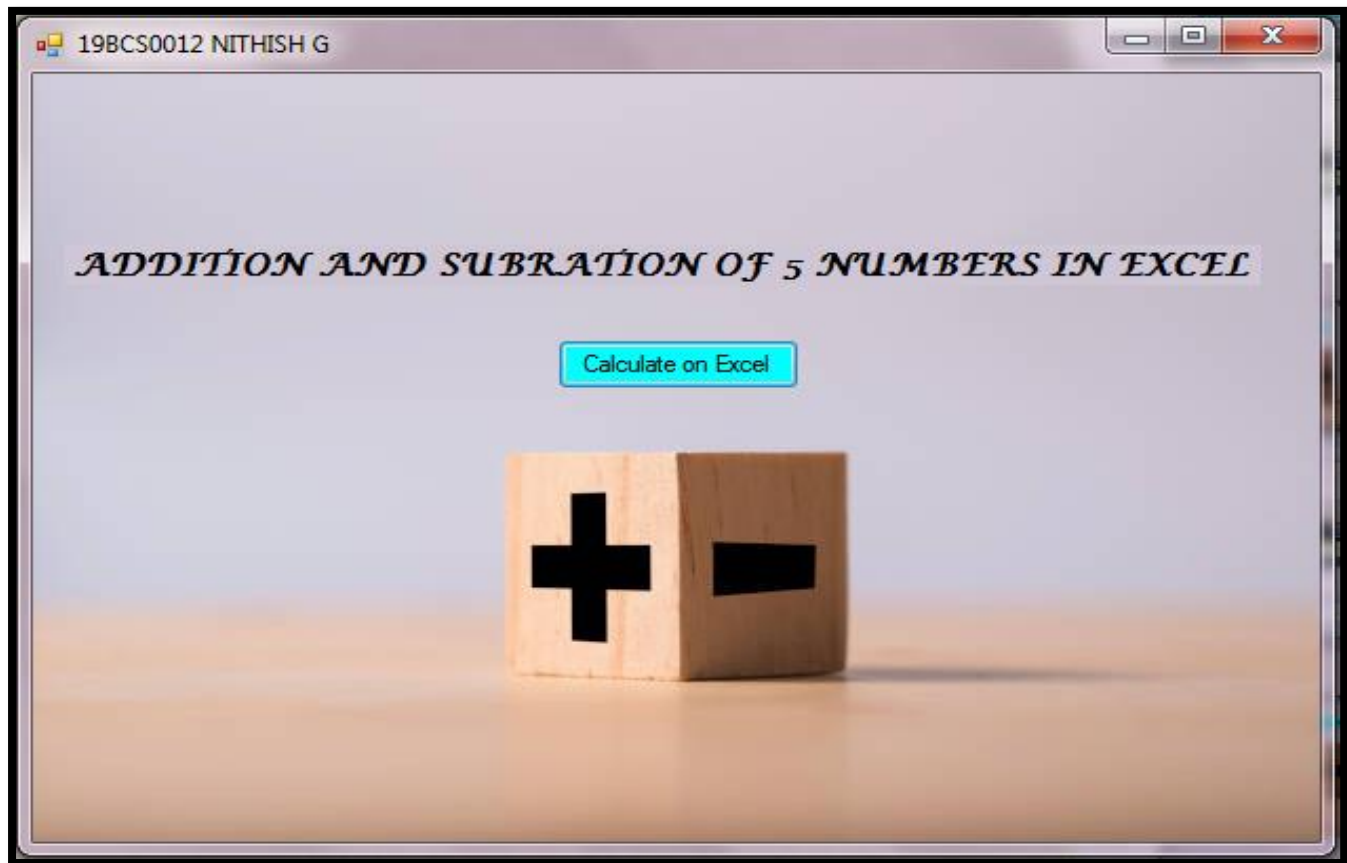
```
oRng.Formula = "=C4-D4-E4-F4-G4"
```

```
End With
```

```
End Sub
```

```
End Class
```

## Output Form



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

Book1 - Microsoft Excel

Home Insert Page Layout Formulas Data Review View

Paste Font Alignment Number Styles Cells Editing

M18 f<sub>x</sub>

	A	B	C	D	E	F	G	H	I	J
1			ADDITION AND SUBTRACTION OF 5 NUMBERS							
2										
3			1st No.	2nd No.	3rd No.	4th No.	5th No.			
4			140	40	30	40	10			
5										
6										
7			ADDITON (+)			260				
8			SUBTRACTION (-)			20				
9										
10										
11										

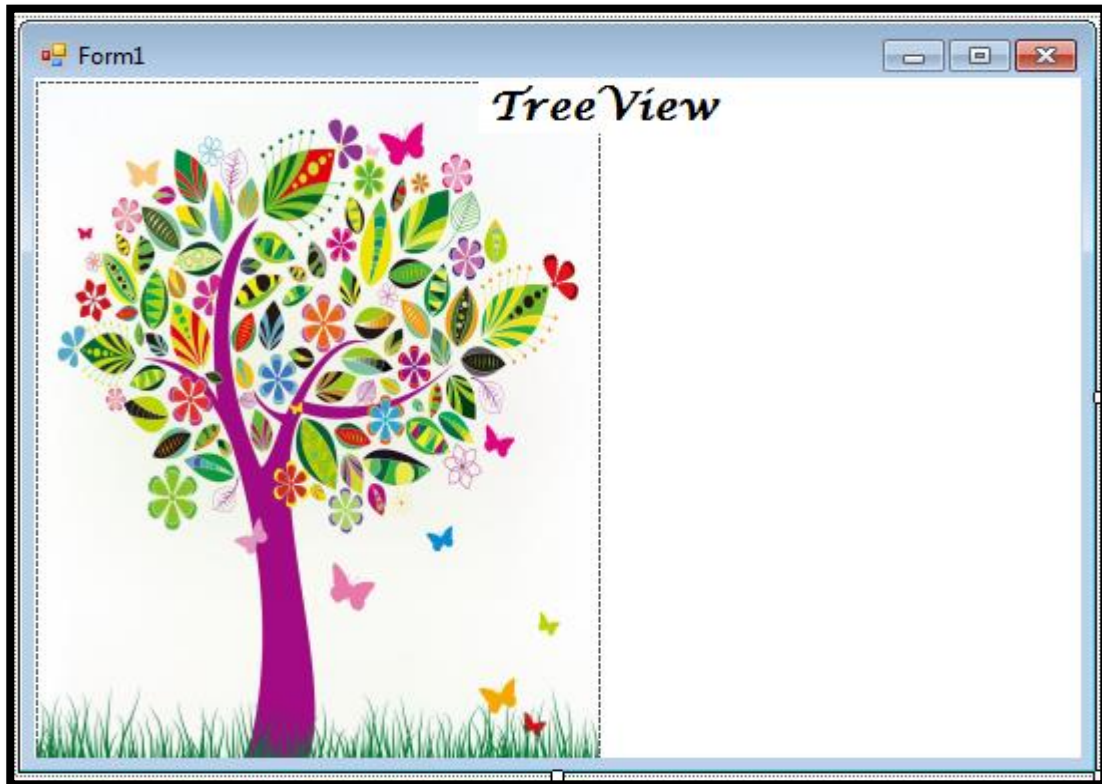
Sheet1 Sheet2 Sheet3

Ready 100%

4. 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.

## Form Design



## Event Procedures

```
Public Class Form1
```

```
    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
```

```
        'create a New TreeView
        Dim TreeView1 As TreeView
        TreeView1 = New TreeView()
        TreeView1.Location = New Point(298, 35)
        TreeView1.Size = New Size(200, 300)
        TreeView1.BorderStyle = BorderStyle.Fixed3D
```

```
        Me.Controls.Add(TreeView1)
        TreeView1.Nodes.Clear()
        'Creating the root node
        Dim root = New TreeNode("VISUAL PROGRAMMING!")
        TreeView1.Nodes.Add(root)
        TreeView1.Nodes(0).Nodes.Add(New TreeNode("19BCS0012"))
        'Creating child nodes under the first child
```



```

For loopindex As Integer = 1 To 4
    TreeView1.Nodes(0).Nodes(0).Nodes.Add(New TreeNode("TREE VIEW CONTROL" &
Str(loopindex)))
Next loopindex
' creating child nodes under the root
TreeView1.Nodes(0).Nodes.Add(New TreeNode("G.NITHISH"))
'creating child nodes under the created child node

For loopindex As Integer = 1 To 3
    TreeView1.Nodes(0).Nodes(1).Nodes.Add(New TreeNode("TREE VIEW CONTROL" &
Str(loopindex)))
Next loopindex
' Set the caption bar text of the form.
Me.Text = "19BCS0009 - TREE VIEW CONTROL"

End Sub

Private Sub Label1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Label1.Click

End Sub
End Class

```

### Output Form



5. 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)

**[12 Marks]**



**Salary = Basic + HRA + Transport Allowance + Bonus –**

**Provident Fund – Income Tax – Insurance**

### Form Design

**List view will appear on runtime & appropriate code is written in event procedure**

The screenshot shows a Windows application window with a title bar that reads '19BCS0012 NITHISH G'. The main area of the window is a list view with a blue background and white text. The list view has nine columns: 'Employee Name', 'Employee ID', 'Basic Pay', 'HRA', 'Transport Allowance', 'Bonus', 'Provident Fund', 'Income Tax', and 'Insurance'. Below the list view, there is a button labeled 'Display Details'.

### Event Procedures

```
Public Class Form1
    Dim Listview1 As ListView
```

```
    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
        Handles MyBase.Load
```

```
        Listview1 = New ListView()
        Listview1.Location = New Point(70, 35)
        Listview1.Size = New Size(805, 220)
```

```
        Listview1.Columns.Add("Employee Name", 90, HorizontalAlignment.Center)
        Listview1.Columns.Add("Employee ID", 90, HorizontalAlignment.Center)
        Listview1.Columns.Add("Basic Pay", 60, HorizontalAlignment.Center)
        Listview1.Columns.Add("HRA", 60, HorizontalAlignment.Center)
        Listview1.Columns.Add("Transport Allowance", 110, HorizontalAlignment.Center)
        Listview1.Columns.Add("Bons", 60, HorizontalAlignment.Center)
        Listview1.Columns.Add("Provident Fund", 90, HorizontalAlignment.Center)
        Listview1.Columns.Add("Income Tax", 80, HorizontalAlignment.Center)
        Listview1.Columns.Add("Insurance", 80, HorizontalAlignment.Center)
        Listview1.Columns.Add("Salary", 80, HorizontalAlignment.Center)
```

```
        Listview1.View = View.Details ' Display the List in details
        Listview1.GridLines = True
```

```
        Me.Controls.Add(Listview1)
```

```
End Sub
```

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

```
    Dim Array(9) As String
    Dim itm As ListViewItem
    Array(0) = TextBox1.Text 'Accept value from the user.
    Array(1) = TextBox2.Text
    Array(2) = TextBox3.Text
    Array(3) = TextBox4.Text
    Array(4) = TextBox5.Text
    Array(5) = TextBox6.Text
    Array(6) = TextBox7.Text
    Array(7) = TextBox8.Text
    Array(8) = TextBox9.Text
    Array(9) = (Val(TextBox3.Text) + Val(TextBox4.Text) + Val(TextBox5.Text) +
Val(TextBox6.Text))
    Array(9) = Array(9) - (Val(TextBox7.Text) + Val(TextBox8.Text) +
Val(TextBox9.Text))
```

```
    itm = New ListViewItem(Array)
    Listview1.Items.Add(itm)
    TextBox1.Text = ""
    TextBox2.Text = ""
    TextBox3.Text = ""
    TextBox4.Text = ""
    TextBox5.Text = ""
    TextBox6.Text = ""
    TextBox7.Text = ""
    TextBox8.Text = ""
    TextBox9.Text = ""
```

```
End Sub
End Class
```

## Output Form

The application window displays a table with the following data:

Employee Name	Employee ID	Basic Pay	HRA	Transport Allowance	Bons	Provident Fund	Income Tax	Insurance	Salary
NITHISH G	19BCS0012	60000	4000	3000	2000	2000	1120	2500	63380
ROCK	19BCS0013	30000	2500	2340	1110	800	700	1000	33450
RAJESH L	19BCS0014	32000	2800	2200	1120	750	1010	1100	35260
MADHESH	18BCS0015	28000	2800	2400	1000	1100	700	1200	31200
RAKESH	18BCS0016	35000	4000	2800	1500	1800	1200	2000	38300

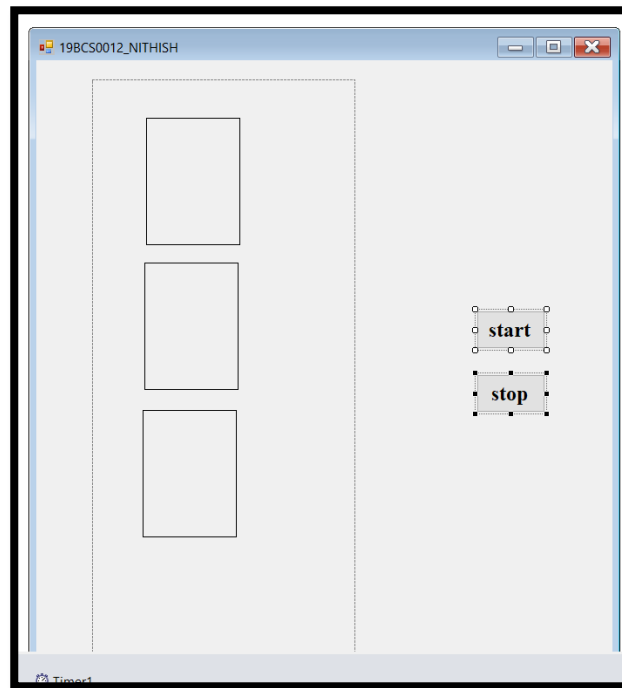
Below the table, there is a form with input fields and a button:

Employee Name	Employee ID	Basic Pay	HRA	Transport Allowance	Bonus	Provident Fund	Income Tax	Insurance
SOM	14BCS019	31000	3400	2900	1000	2000	1100	2000

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

6. Design the VB application for traffic control signal using rectangular shape and timer control. Use for loop to display yellow, green, and red rectangular 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

### Form design



### Event procedure

```
Public Class Form1
```

```
Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
```

```
    Panel1.BackColor = Color.Black  
    RectangleShape1.FillStyle = PowerPacks.FillStyle.Solid  
    RectangleShape2.FillStyle = PowerPacks.FillStyle.Solid  
    RectangleShape3.FillStyle = PowerPacks.FillStyle.Solid
```

```
    RectangleShape1.FillColor = Color.Red  
    RectangleShape2.FillColor = Color.Yellow  
    RectangleShape3.FillColor = Color.Green
```

```
End Sub
```

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

```
    If RectangleShape1.Visible Then  
        RectangleShape1.Visible = False  
        RectangleShape2.Visible = True  
        RectangleShape3.Visible = False  
    ElseIf RectangleShape2.Visible Then  
        RectangleShape1.Visible = False  
        RectangleShape2.Visible = False  
        RectangleShape3.Visible = True
```

```

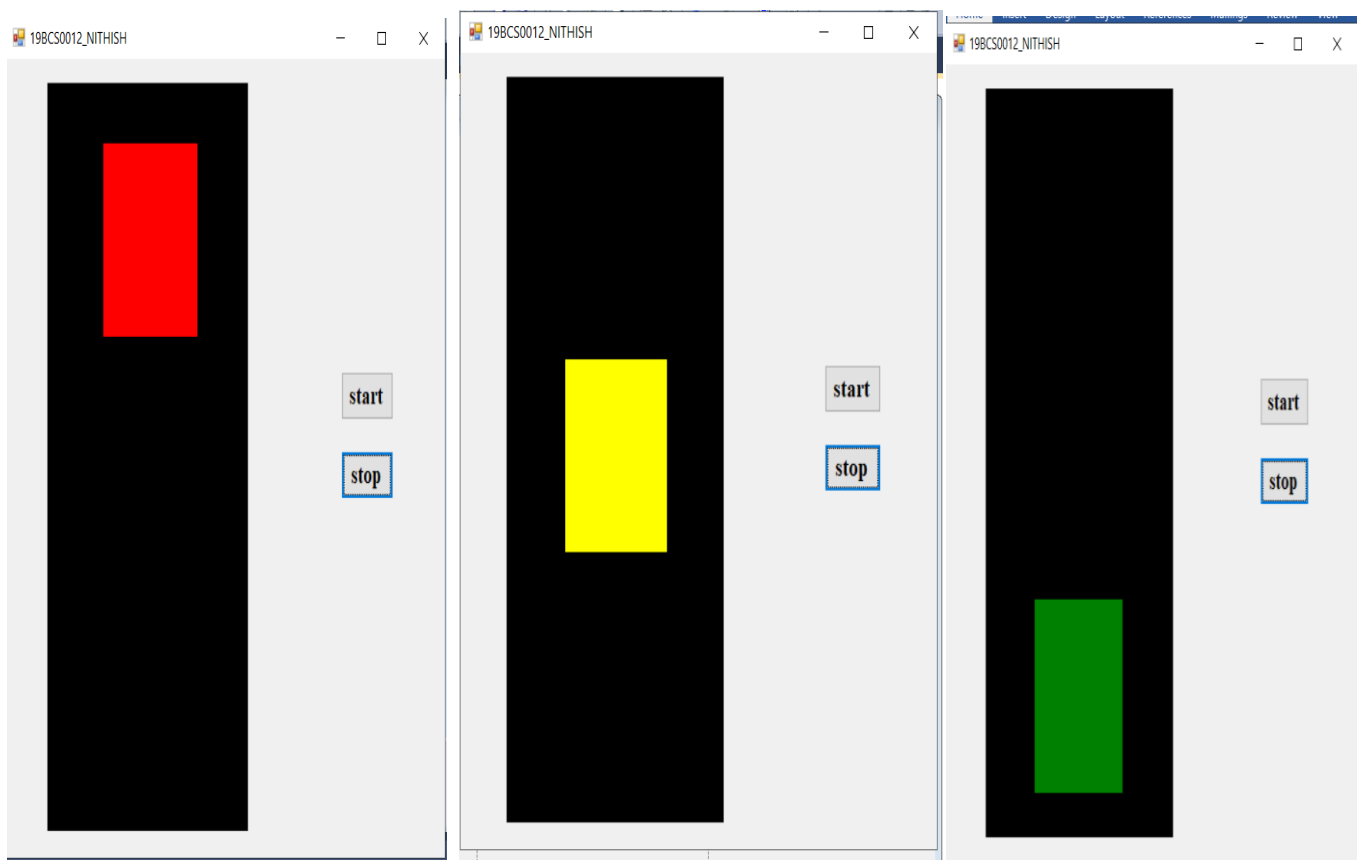
        RectangleShape3.Visible = True
    ElseIf RectangleShape3.Visible Then
        RectangleShape1.Visible = True
        RectangleShape2.Visible = False
        RectangleShape3.Visible = False
    EndIf
EndSub

PrivateSub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    Timer1.Enabled = True
    Timer1.Interval = 1000
EndSub

PrivateSub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    Timer1.Stop()
EndSub
EndClass

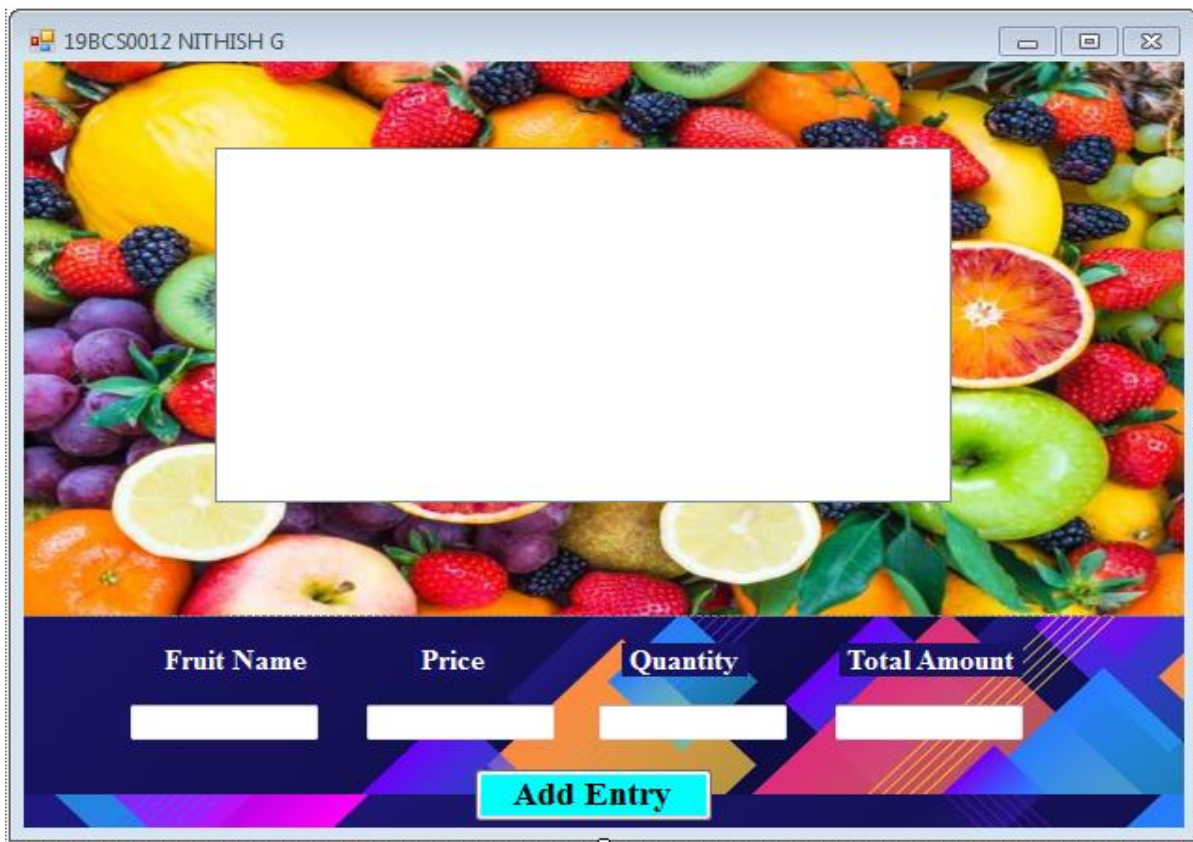
```

## Output



- 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.

## Form Design



## Event 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
```

```
        TextBox1.TextAlign = HorizontalAlignment.Center
```

```
        TextBox2.TextAlign = HorizontalAlignment.Center
```

```
        TextBox3.TextAlign = HorizontalAlignment.Center
```

```
        TextBox4.TextAlign = HorizontalAlignment.Center
```

```
        ListView1.Columns.Add("Fruit Name", 100, HorizontalAlignment.Center)
```

```
        ListView1.Columns.Add("Price", 70, HorizontalAlignment.Center)
```

```
        ListView1.Columns.Add("Quantity", 70, HorizontalAlignment.Center)
```

```
        ListView1.Columns.Add("Total Amount", 170, HorizontalAlignment.Center)
```



End Sub

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button1.Click
    Dim Array(3) As String
    Dim itm As ListViewItem
    Array(0) = TextBox1.Text 'Accept value from the user.
    Array(1) = TextBox2.Text
    Array(2) = TextBox3.Text
    Array(3) = TextBox4.Text

    itm = New ListViewItem(Array)
    ListView1.Items.Add(itm)
    TextBox1.Text = " "
    TextBox2.Text = " "
    TextBox3.Text = " "
    TextBox4.Text = " "

End Sub
End Class
```

## Output Form

Fruit Name	Price	Quantity	Total Amount
APPLE	125	5	625
FIG	100	2	200
ORANGE	80	4	320
GARPES	60	4	240
BANANA	6	24	144
CUCUMBER	44	10	440

Fruit Name      Price      Quantity      Total Amount

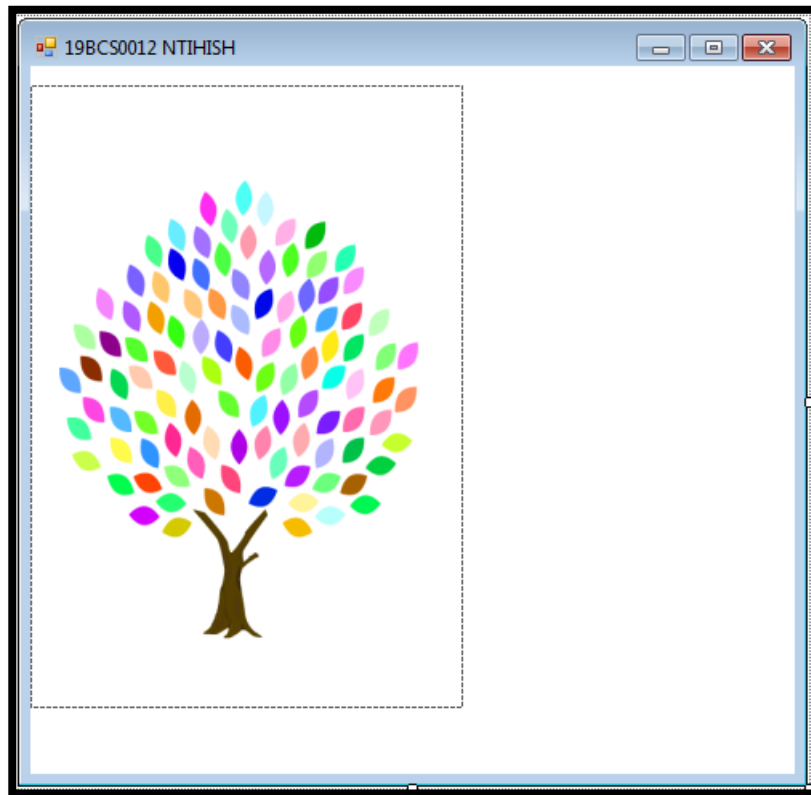
                

**Add Entry**



8. 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.

### FORM DESIGN



### Event procedure

```
Public Class Form1
    Dim TreeView1 As TreeView
    Dim tNode As TreeNode
    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
        Handles MyBase.Load
            TreeView1 = New TreeView()
            TreeView1.Location = New Point(280, 60)
            TreeView1.Size = New Size(250, 320)
            Me.Controls.Add(TreeView1)
            TreeView1.Nodes.Clear()

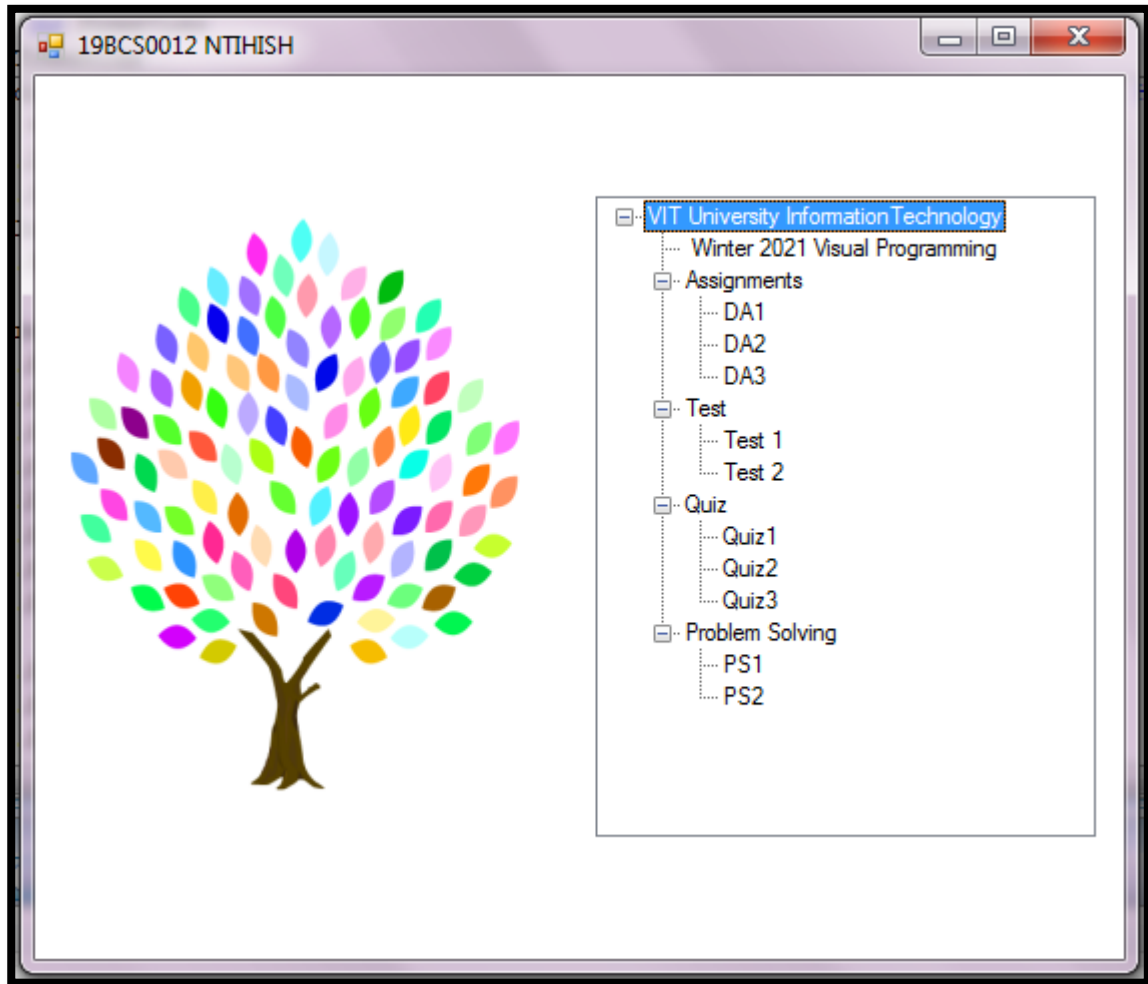
            tNode = TreeView1.Nodes.Add("VIT University InformationTechnology")
            TreeView1.Nodes(0).Nodes.Add(" Winter 2021 Visual Programming")
            TreeView1.Nodes(0).Nodes.Add("Assignments")
            TreeView1.Nodes(0).Nodes(1).Nodes.Add("DA1")
            TreeView1.Nodes(0).Nodes(1).Nodes.Add("DA2")
            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")
        End Sub
    End Class
```

```
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
```

## Output Form



THANK YOU!