

VIVEKANAND MAHAVIDYALAYA



**Assignment Based on
Dot Net Technology (303)
BCA III Year
Session :- 2020 – 2021**

Guided By :-
Prof. Nishid Parmar

Prepared By :-
P. Divyashree

S.no.	Topic	Pg. No	Sign.
1.			

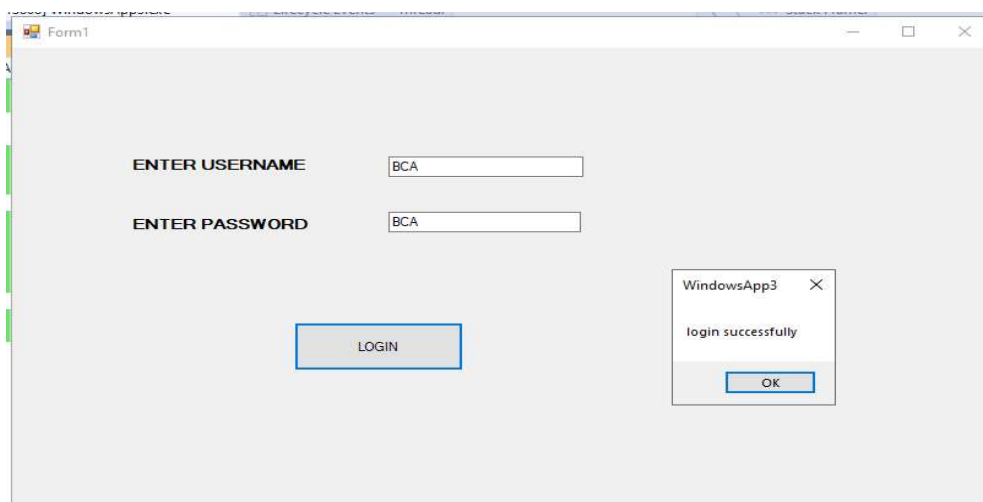
Q. Develop an application which is similar to login form.

Source code:

```
Public Class Form1
Private Sub Button1_Click(sender As Object, e As EventArgs)
Handles Button1.Click
    If TextBox1.Text = "BCA" Then
        If TextBox2.Text = "BCA" Then
            MsgBox("login successfully")
        Else
            MsgBox("invalid password")
        End If
    Else
        MsgBox("invalid username")
    End If

End Sub
End Class
```

Output:



Form1

ENTER USERNAME

BCA

ENTER PASSWORD

BAC

LOGIN

WindowsApp3

invalid password

OK

Q. Design an application using ComboBox.

Source Code:

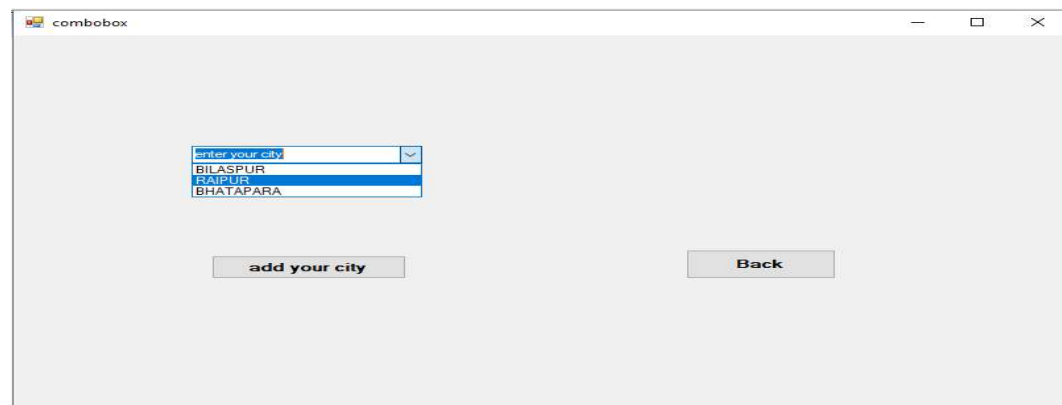
```
Public Class combobox
    Dim n As String
    Private Sub ComboBox1_SelectedIndexChanged(sender As Object,
e As EventArgs) Handles ComboBox1.SelectedIndexChanged

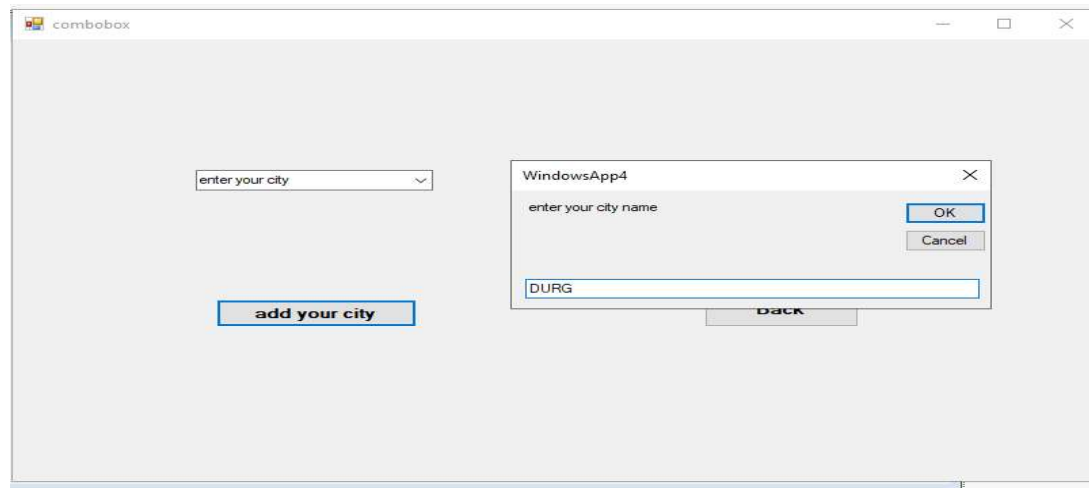
        MsgBox(ComboBox1.SelectedItem)

    End Sub

    Private Sub Button1_Click(sender As Object, e As
EventArgs) Handles Button1.Click
        n = InputBox("enter your city name")
        ComboBox1.Items.Add(n)
    End Sub
```

Output:





Q. Design an application to input basic salary of an employee and calculate its Gross salary according to following:

Basic Salary <= 10000 : HRA = 20% , DA = 80%

Basic Salary <= 20000 : HRA = 25% , DA = 90%

Basic Salary <= 20000 : HRA = 30% , DA = 95%

Source Code:

```
Public Class Form1
```

```
    Private Sub TextBox5_Click(sender As Object, e As EventArgs) Handles TextBox5.Click
```

```
        Dim salary As Integer
```

```
        Dim HRA As Integer
```

```
        Dim DA As Integer
```

```
        salary = TextBox2.Text
```

```
        HRA = TextBox3.Text
```

```
        DA = TextBox4.Text
```

```
        If salary <= 10000 Then
```

```
            HRA = salary * 20 / 100
```

```
            DA = salary * 80 / 100
```

```
            TextBox5.Text = salary + HRA + DA
```

```
        End If
```

```
        If salary <= 20000 Then
```

```
            HRA = salary * 25 / 100
```

```
            DA = salary * 90 / 100
```

```
            TextBox5.Text = salary + HRA + DA
```

```
        End If
```

```
        If salary <= 20000 Then
```

```
HRA = salary * 30 / 100  
DA = salary * 95 / 100  
TextBox5.Text = salary + HRA + DA
```

```
End If
```

```
End Sub
```

```
Private Sub Button1_Click(sender As Object, e As  
EventArgs) Handles Button1.Click  
    TextBox1.Text = "  
    TextBox2.Text = "  
    TextBox3.Text = "  
    TextBox4.Text = "  
    TextBox5.Text = "
```

```
End Sub  
End Class
```

Output:

The screenshot shows a Windows application window titled "Form1". Inside the window is a form titled "GROSS SALARY OF EMPLOYEE". The form has a light gray background and a blue header bar. It contains five text boxes for input, each with a label to its left: "Employee Name" (containing "SUNITA JHA"), "Basic Salary" (containing "20000"), "HRA" (containing "25"), "DA" (containing "90"), and "Gross Salary" (containing "45000"). At the bottom of the form is a light blue button labeled "CLEAR".

Q. Design a simple calculator.

Source Code:

```
Public Class Form1
    Dim var1 As Double
    Dim var2 As Double
    Dim var3 As Double
    Dim opr As Double
    Dim selectedopr As Double

    Private Sub Btn1_Click(sender As Object, e As EventArgs)
Handles Btn1.Click
        TextBox1.Text = TextBox1.Text + "1"
    End Sub

    Private Sub Btn2_Click(sender As Object, e As EventArgs)
Handles Btn2.Click
        TextBox1.Text = TextBox1.Text + "2"
    End Sub

    Private Sub Btn3_Click(sender As Object, e As EventArgs)
Handles Btn3.Click
        TextBox1.Text = TextBox1.Text + "3"
    End Sub

    Private Sub Btn4_Click(sender As Object, e As EventArgs)
Handles Btn4.Click
        TextBox1.Text = TextBox1.Text + "4"
    End Sub

    Private Sub Btn5_Click(sender As Object, e As EventArgs)
Handles Btn5.Click
        TextBox1.Text = TextBox1.Text + "5"
    End Sub

    Private Sub Btn6_Click(sender As Object, e As EventArgs)
Handles Btn6.Click
        TextBox1.Text = TextBox1.Text + "6"
    End Sub
```

```
Private Sub Btn7_Click(sender As Object, e As EventArgs)
Handles Btn7.Click
    TextBox1.Text = TextBox1.Text + "7"
End Sub
```

```
Private Sub Btn8_Click(sender As Object, e As EventArgs)
Handles Btn8.Click
    TextBox1.Text = TextBox1.Text + "8"
End Sub
```

```
Private Sub Btn9_Click(sender As Object, e As EventArgs)
Handles Btn9.Click
    TextBox1.Text = TextBox1.Text + "9"
End Sub
```

```
Private Sub Btnclear_Click(sender As Object, e As
EventArgs) Handles Btnclear.Click
    TextBox1.Text = ""
End Sub
```

```
Private Sub Btndot_Click(sender As Object, e As
EventArgs) Handles Btndot.Click
    TextBox1.Text = TextBox1.Text + "."
End Sub
```

```
Private Sub Btnplus_Click(sender As Object, e As
EventArgs) Handles Btnplus.Click
    var1 = Val(TextBox1.Text)
    TextBox1.Text = ""
    selectedopr = True
    opr = 1
End Sub
```

```
Private Sub Btnequal_Click(sender As Object, e As
EventArgs) Handles Btnequal.Click
    var2 = Val(TextBox1.Text)
    If opr = 1 Then
        TextBox1.Text = var1 + var2
    ElseIf opr = 2 Then
```

```
        TextBox1.Text = var1 - var2
    ElseIf opr = 3 Then
        TextBox1.Text = var1 * var2
    ElseIf opr = 4 Then
        TextBox1.Text = var1 / var2

    End If
```

```
End Sub
```

```
Private Sub Btnsubt_Click(sender As Object, e As
EventArgs) Handles Btnsubt.Click
    var1 = Val(TextBox1.Text)
    TextBox1.Text = ""
    selectedopr = True
    opr = 2
End Sub
```

```
Private Sub BtnMul_Click(sender As Object, e As
EventArgs) Handles BtnMul.Click
    var1 = Val(TextBox1.Text)
    TextBox1.Text = ""
    selectedopr = True
    opr = 3
End Sub
```

```
Private Sub Btndiv_Click(sender As Object, e As
EventArgs) Handles Btndiv.Click
    var1 = Val(TextBox1.Text)
    TextBox1.Text = ""
    selectedopr = True
    opr = 4
End Sub
```

```
Private Sub Btn0_Click(sender As Object, e As EventArgs)
Handles Btn0.Click
    TextBox1.Text = TextBox1.Text + "0"
End Sub
```

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

```
End Sub  
End Class
```

Output:

Form1

2 + 7 = 9

CLEAR

7	8	9	+
4	5	6	-
1	2	3	*
0	.	=	/

Q. Design a calculator to calculate factorial number.
Source Code:

```
Public Class Form1
```

```
    Private Sub TextBox2_CLICK(sender As Object, e As  
EventArgs) Handles TextBox2.Click
```

```
        Dim n As Integer
```

```
        Dim i As Integer
```

```
        Dim f As Integer
```

```
        f = 1
```

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

```
        For i = 1 To n
```

```
            f = f * i
```

```
        Next
```

```
        TextBox2.Text = (" " & f)
```

```
    End Sub
```

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

```
        TextBox2.Text = " "
```

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

```
    End Sub
```

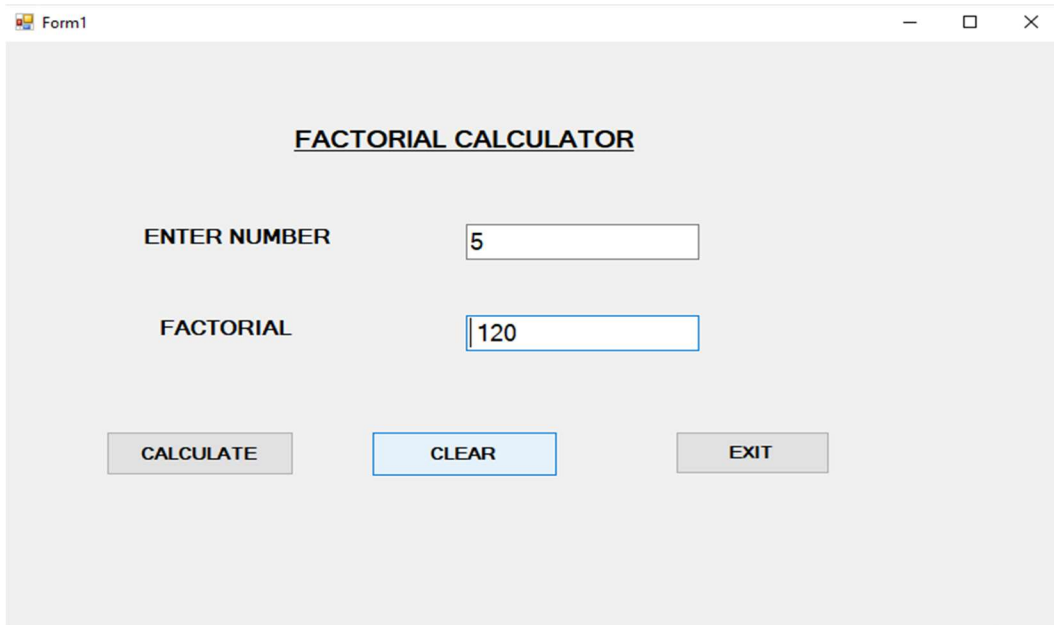
```
    Private Sub Button2_Click(sender As Object, e As  
EventArgs) Handles Button2.Click
```

```
        End
```

```
    End Sub
```

```
End Class
```

Output:



Form1

FACTORIAL CALCULATOR

ENTER NUMBER

FACTORIAL

Q. Design an application to perform arithmetic operations using labels, textbox and buttons.

Source Code:-

```
Public Class Form1
    Private Sub Form1_Load(sender As Object, e As EventArgs)
        Handles MyBase.Load

    End Sub

    Private Sub Button1_Click(sender As Object, e As
        EventArgs) Handles Button1.Click
        TextBox3.Text = Val(TextBox1.Text) +
        Val(TextBox2.Text)

    End Sub

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

    Private Sub Button3_Click(sender As Object, e As
        EventArgs) Handles Button3.Click
        TextBox1.Text = " "
        TextBox2.Text = " "
        TextBox3.Text = " "

    End Sub

    Private Sub Button6_Click(sender As Object, e As
        EventArgs) Handles Button6.Click
        TextBox3.Text = Val(TextBox1.Text) -
        Val(TextBox2.Text)
    End Sub

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

```
        TextBox3.Text = Val(TextBox1.Text) *  
Val(TextBox2.Text)  
    End Sub  
  
    Private Sub Button4_Click(sender As Object, e As  
EventArgs) Handles Button4.Click  
        TextBox3.Text = Val(TextBox1.Text) /  
Val(TextBox2.Text)  
    End Sub  
  
    Private Sub Button7_Click(sender As Object, e As  
EventArgs) Handles Button7.Click  
        Close()  
  
    End Sub  
End Class
```

Output: -

Form1

ARITHMETIC OPERATIONS

Enter First number 10

Enter Second number 5

Result 15

ADD SUBTRACT MULTIPLY DIVISION END CLEAR CLOSE

Q. Design a calculator to calculate Simple Interest.

Source Code:-

```
Public Class Form1
```

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

```
        TextBox4.Text = Val(TextBox1.Text) *  
Val(TextBox2.Text) * Val(TextBox3.Text) / 100
```

```
    End Sub  
End Class
```

Output:-

The screenshot shows a Windows application window titled "Form1". Inside the window, there is a light gray background with four labels and corresponding text boxes arranged vertically on the left side. The labels are "Principle", "Rate", "Time", and "Simple Interest". The text boxes contain the values "20000", "3.875", "5", and "3875" respectively. At the bottom center of the form, there is a button labeled "CALCULATE".

Label	Value
Principle	20000
Rate	3.875
Time	5
Simple Interest	3875

Q. Write a program to enter any number using Input box.

Source Code:-

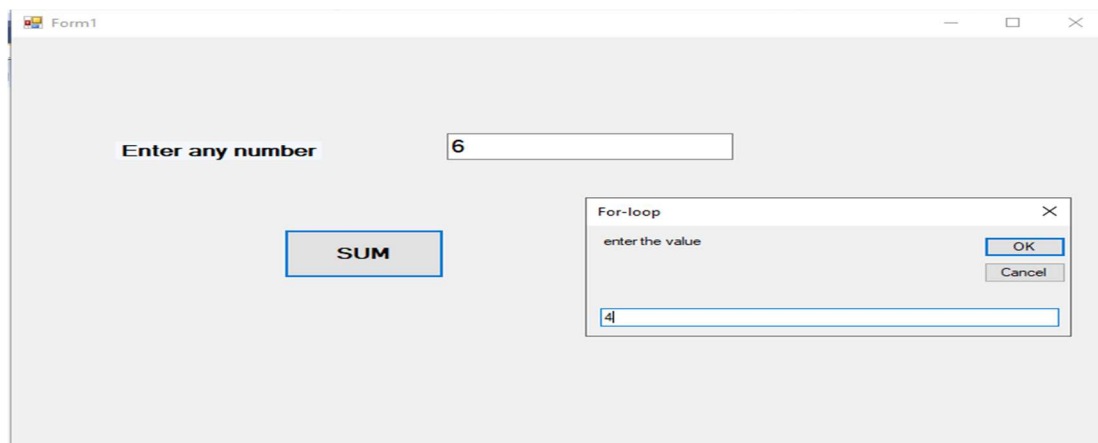
```
Public Class Form1
    Dim n As Integer
    Dim i As Integer
    Dim sum As Integer
    Private Sub Button1_Click(sender As Object, e As
EventArgs) Handles Button1.Click
        n = InputBox("enter the value")

        sum = 0

        For i = 1 To n Step 1
            sum = sum + i

        Next
        MsgBox("sum=" & sum)
    End Sub
End Class
```

Output:-



Form1

Enter any number

6

SUM

For-loop

sum=10

OK

Q. Create an application that offers various food items to select from check boxes and a mode of payment using radio button. It then display the total amount payable.

Source Code:-

```
Public Class Form1
```

```
    Private Sub Button1_Click(sender As Object, e As  
EventArgs) Handles Button1.Click  
        If CheckBox1.Enabled = True And CheckBox2.Enabled =  
False Then
```

```
            TextBox3.Text = Val(TextBox1.Text)  
        Else  
            If CheckBox1.Enabled = True And  
CheckBox2.Enabled = True Then  
                TextBox3.Text = Val(TextBox1.Text) +  
Val(TextBox2.Text)  
            End If
```

```
        End If  
    End Sub  
End Class
```

Output: -

Form1

Select Your Food Item

☒ Tea 25

☒ Coffee 30

☐ Cold Drink

Select Your Payment Method

☒ UPI

☐ Debit Card

☐ Credit Card

Total Amount 55

Q. Design a Student Marksheet which show student Percentage or Grade.

Source code:-


```
Public Class Form1
```

```
    Private Sub Label7_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Label7.Click  
        TextBox6.Text = (Val(TextBox1.Text) +  
Val(TextBox2.Text) + Val(TextBox3.Text) + Val(TextBox4.Text)  
+ Val(TextBox5.Text)) / 5  
    End Sub
```

```
Private Sub Label13_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Label13.Click  
    Dim PERCENTAGE As Double  
    PERCENTAGE = TextBox6.Text  
    If PERCENTAGE >= 90 Then  
        TextBox11.Text = " A "  
  
    ElseIf PERCENTAGE >= 80 Then  
        TextBox11.Text = " B "  
  
    ElseIf PERCENTAGE >= 70 Then  
        TextBox11.Text = " C "  
    ElseIf PERCENTAGE >= 60 Then  
        TextBox11.Text = " D "  
    ElseIf PERCENTAGE >= 40 Then  
        TextBox11.Text = " E "  
    ElseIf PERCENTAGE <= 40 Then  
        TextBox11.Text = " F "  
    Else  
        TextBox11.Text = " FAIL "  
  
    End If  
End Sub  
End Class
```

Output:-

Form1



DPS SCHOOL
STUDENT MARKSHEET

ROLL NO	108	HINDI	89
STUDENT NAME	Raju Verma	MATHS	74
FATHER NAME	Kamal Verma	ENGLISH	68
MOTHER NAME	Reena Verma	SCIENCE	78
		SOCIAL SCIENCE	81
		PERCENTAGE	78
		GRADE	C

