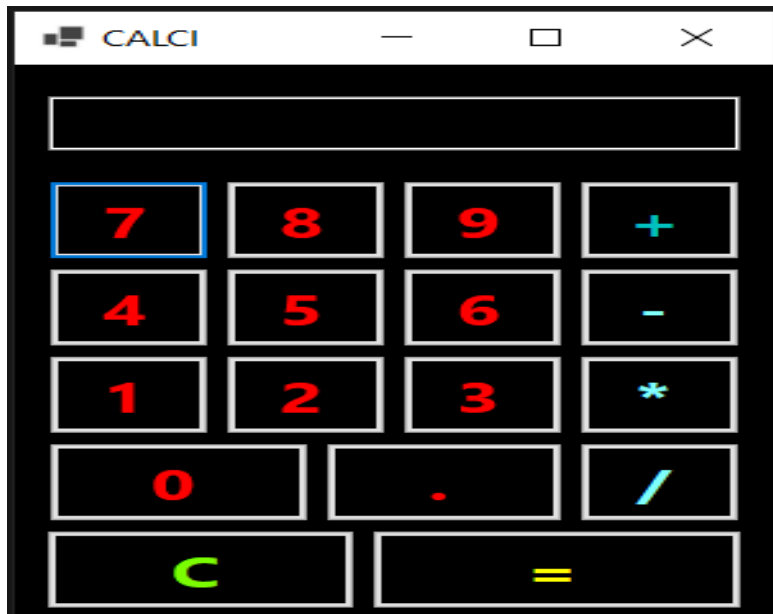# Gateway Institute of Engineering and Technology

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BCA-3rd Year

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CSE

Program-1

Aim: - Write a Program to make four function Calculator.

Design: -

Steps:

1. Taking 1 TextBox as t1.
2. Taking Button as (1,2,3,4,5,6,7,8,9,0,.,+,-,/,C,=)

Source Code: -

```
Public Class Form1
Dim a As Double
Dim b As Double
Dim s As String
Private Sub Button13_Click(sender As Object, e As EventArgs) Handles Button13.Click
t1.Text = t1.Text & 0
End Sub
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
t1.Text = t1.Text & 7
End Sub
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
t1.Text = t1.Text & 8
End Sub
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
```
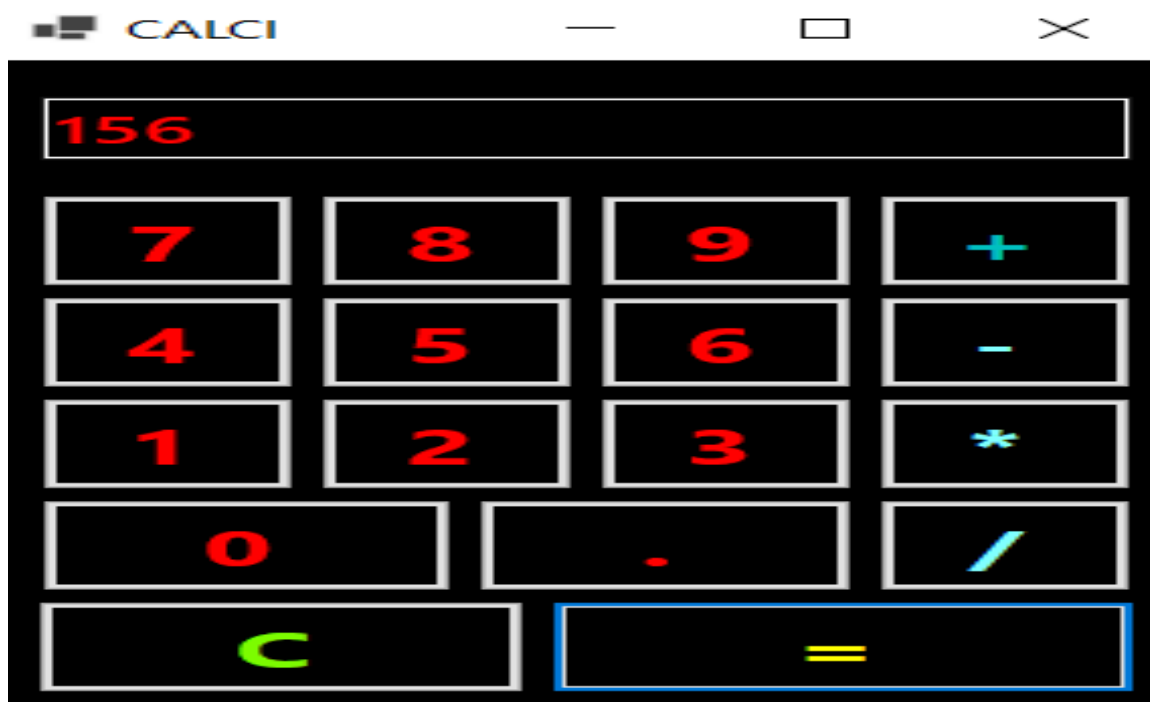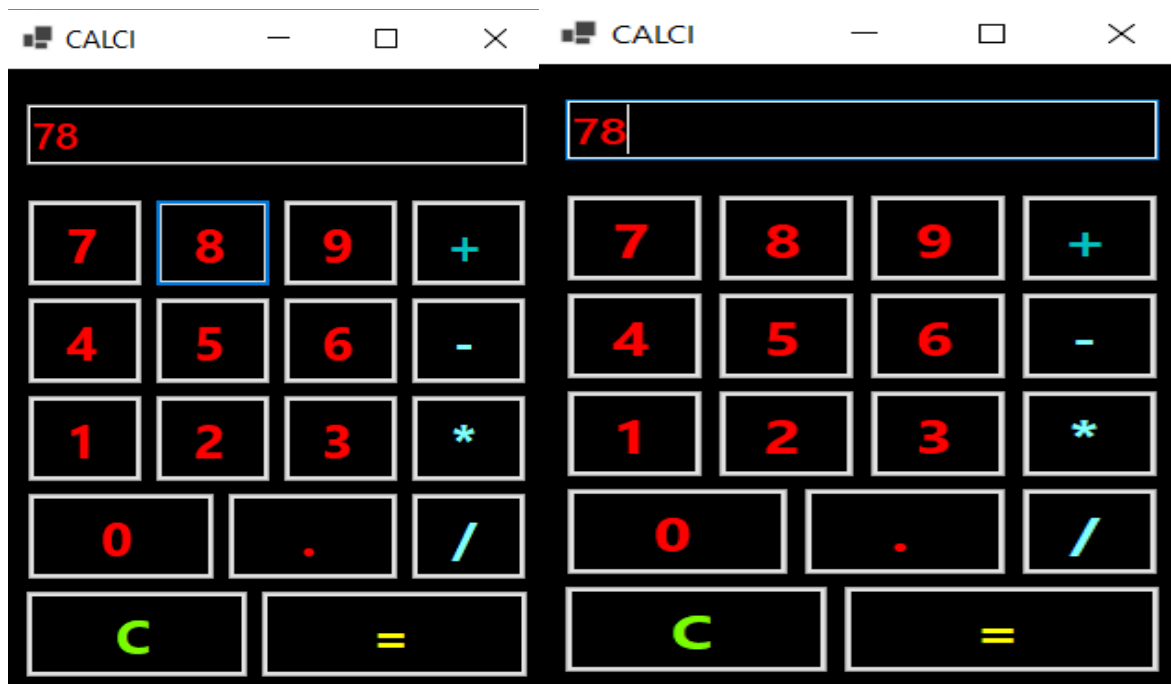
```vbnet
t1.Text = t1.Text & 9
End Sub
Private Sub Button5_Click(sender As Object, e As EventArgs) Handles Button5.Click
t1.Text = t1.Text & 4
End Sub
Private Sub Button6_Click(sender As Object, e As EventArgs) Handles Button6.Click
t1.Text = t1.Text & 5
End Sub
Private Sub Button7_Click(sender As Object, e As EventArgs) Handles Button7.Click
t1.Text = t1.Text & 6
End Sub
Private Sub Button9_Click(sender As Object, e As EventArgs) Handles Button9.Click
t1.Text = t1.Text & 1
End Sub
Private Sub Button10_Click(sender As Object, e As EventArgs) Handles Button10.Click
t1.Text = t1.Text & 2
End Sub
Private Sub Button11_Click(sender As Object, e As EventArgs) Handles Button11.Click
t1.Text = t1.Text & 3
End Sub
Private Sub Button16_Click(sender As Object, e As EventArgs) Handles Button16.Click
t1.Text = ""
End Sub
Private Sub Button17_Click(sender As Object, e As EventArgs) Handles Button17.Click
t1.Text = t1.Text & "."
End Sub
Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
a = t1.Text
s = "+"
t1.Text = ""
End Sub
Private Sub Button8_Click(sender As Object, e As EventArgs) Handles Button8.Click
a = t1.Text
s = "-"
t1.Text = ""
End Sub
Private Sub Button12_Click(sender As Object, e As EventArgs) Handles Button12.Click
a = t1.Text
s = "*"
t1.Text = ""
End Sub
Private Sub Button15_Click(sender As Object, e As EventArgs) Handles Button15.Click
a = t1.Text
s = "/"
t1.Text = ""
End Sub
Private Sub Button14_Click(sender As Object, e As EventArgs) Handles Button14.Click
b = t1.Text
If s = "+" Then
t1.Text = a + b
```

```
ElseIf s = "-" Then
t1.Text = a - b
ElseIf s = "*" Then
t1.Text = a * b
ElseIf s = "/" Then
If b = 0 Then
t1.Text = "Can't be determined  !!"
Else
t1.Text = a / b
End If
End If
End Sub
End Class
```

Output: Taking Example of add

Program-2

Aim: - Program to Calculate area and perimeter of Rectangle and Square.

Design: -

Steps: -

1. Taking 2 groupbox as Square and Rectangle.
2. Taking 2 TextBox as s1, result respectively in Square.
3. Taking 2 buttons as Area and Perimeter.
4. Taking 3 TextBox as l1,b1, reslt respectively in Square.
5. Taking 2 buttons as Area and Perimeter.

Source Code: -

```
Public Class Form1
Dim s, l, b, res As Double
Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
s = Val(s1.Text)
res = s * s
result.Text
 = res
End Sub
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
s = Val(s1.Text)
res = 4 * s
result.Text = res
```

```vbnet
End Sub
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
l = Val(l1.Text)
b = Val(b1.Text)
res = 2 * (l + b)
reslt.Text = res
End Sub
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
l = Val(l1.Text)
b = Val(b1.Text)
res = l * b
reslt.Text = res
End Sub
End Class
```

Output: -
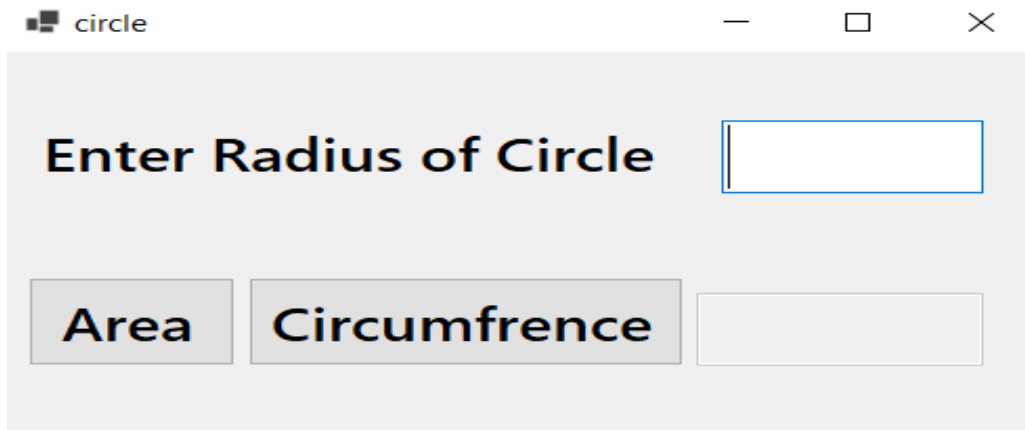
Program-3

Aim: - To find Area and Circumference of a Circle

Design: -

Steps: -

1. Taking 2 textbox as t1, t2(UnEditable).
2. Taking 2 buttons named as Area and Circumference.

Source Code: -

```
Public Class Form1
Dim cir, r, ar As Double
Const pi As Double = 3.14
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
r = Val(t1.Text)
cir = 2 * pi * r
t2.Text = cir
End Sub
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
r = Val(t1.Text)
ar = pi * r * r
t2.Text = ar
End Sub
End Class
```
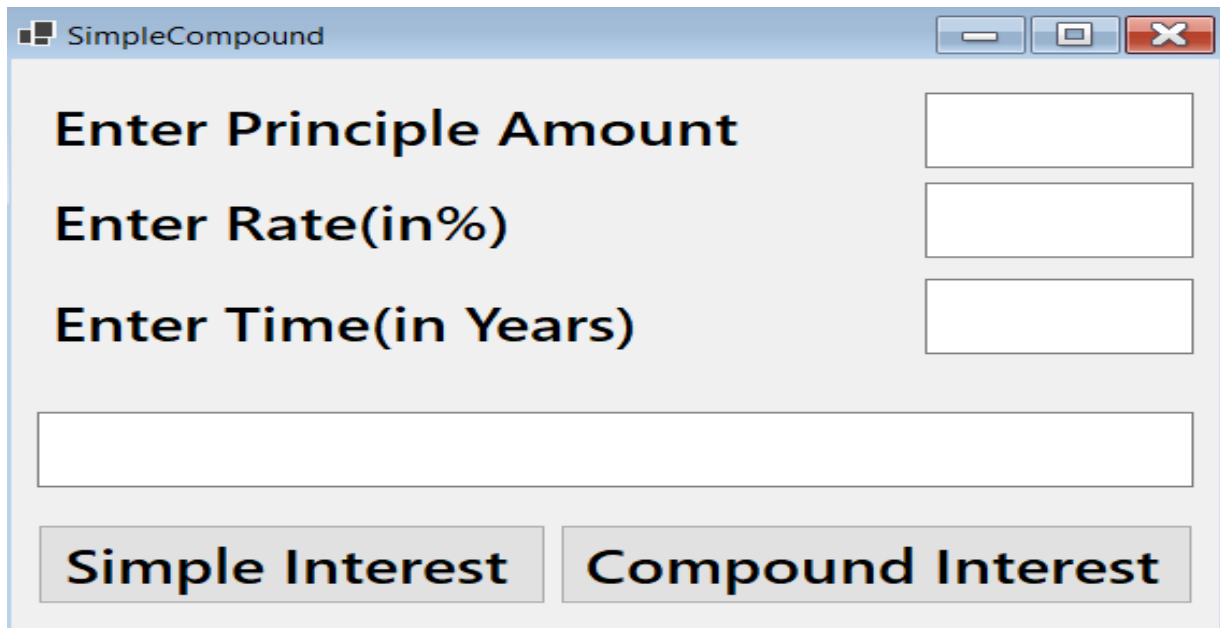
Output: -

Program-4

Aim: - To find Simple Interest and Compound Interest.

Design: -

Steps: -

1. Taking 4 textbox as p1 ,r1 ,t1 and result respectively.
2. Taking 2 Buttons named as Simple and Compound Interest.

Source Code: -

```
Public Class Form1
Dim rate, result As Double
Dim principle, time, n As Double
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
principle = Val(p1.Text)
Rate = Val(r1.Text)
time = Val(t1.Text)
result = principle * (1 + rate / 100) ^ time
res.Text = result - principle
End Sub
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
principle = Val(p1.Text)
Rate = Val(r1.Text)
time = Val(t1.Text)
result = (principle * rate * time) / 100
res.Text = result
```

End Sub
End Class
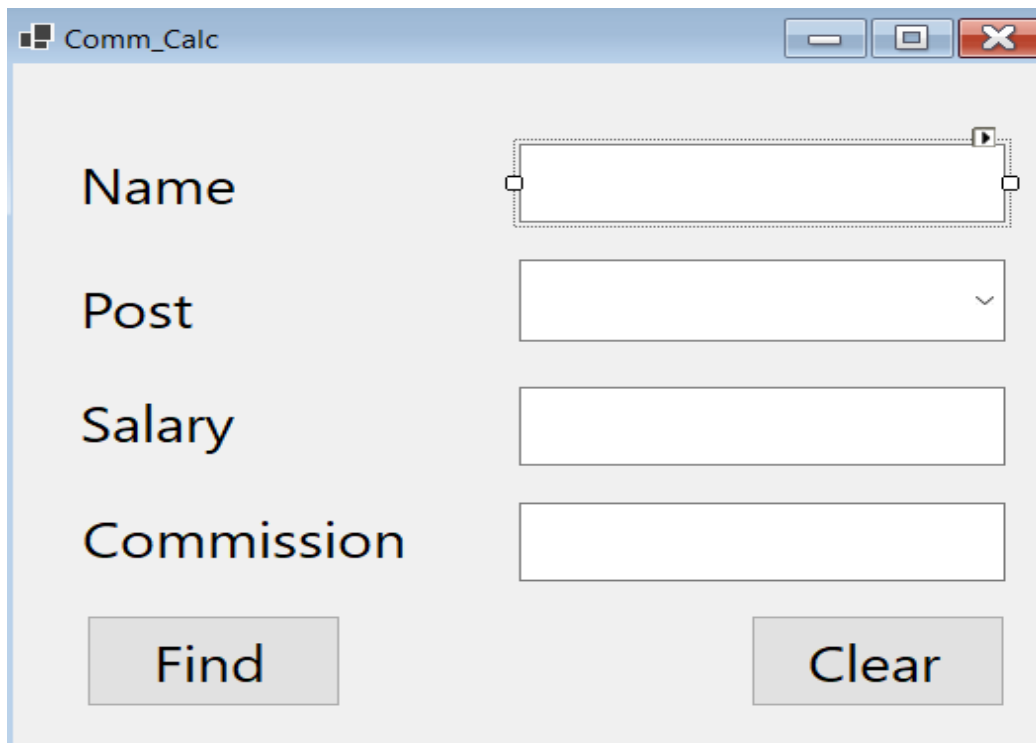
Output: -

Program -5

Aim: - Program to calculate commission.

Design: -

Steps: -

1. Taking 3 textbox and 1 combobox for selection of posts
2. This form contains 2 buttons 1 for find commission and 1 for clear all TextBox.
3. Post contains (Freshie/Intern, Employee, Assistant Manager, Manager, HR, General Manager. Commission as 0%, 10%, 20%, 30%, 35%, 40%).

Source Code: -

```
Public Class Form1
Dim sal, comm As Integer
Dim a As String
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
```

```
TextBox1.Text = ""
TextBox2.Text = ""
TextBox3.Text = ""
End Sub
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
a = Val(TextBox1.Text)
If TextBox1.Text = "" Then
MsgBox("Enter Your Name")
End If
sal = Val(TextBox2.Text)
If ComboBox1.SelectedIndex = 0 Then
comm = sal * 0
TextBox3.Text = comm
ElseIf ComboBox1.SelectedIndex = 1 Then
comm = sal * 0.1
TextBox3.Text = comm
ElseIf ComboBox1.SelectedIndex = 2 Then
comm = sal * 0.2
TextBox3.Text = comm
ElseIf ComboBox1.SelectedIndex = 3 Then
comm = sal * 0.3
TextBox3.Text = comm
ElseIf ComboBox1.SelectedIndex = 4 Then
comm = sal * 0.35
TextBox3.Text = comm
ElseIf ComboBox1.SelectedIndex = 5 Then
comm = sal * 0.4
TextBox3.Text = comm
Else
TextBox3.Text = "wrong selection!!"
End If
End Sub
End Class
```

Output: -

Comm_Calc

Name	Krishna
Post	HR
Salary	150000
Commission	52500

[Find] [Clear]