

Practical No 08**VIII. Resources required (Additional)**

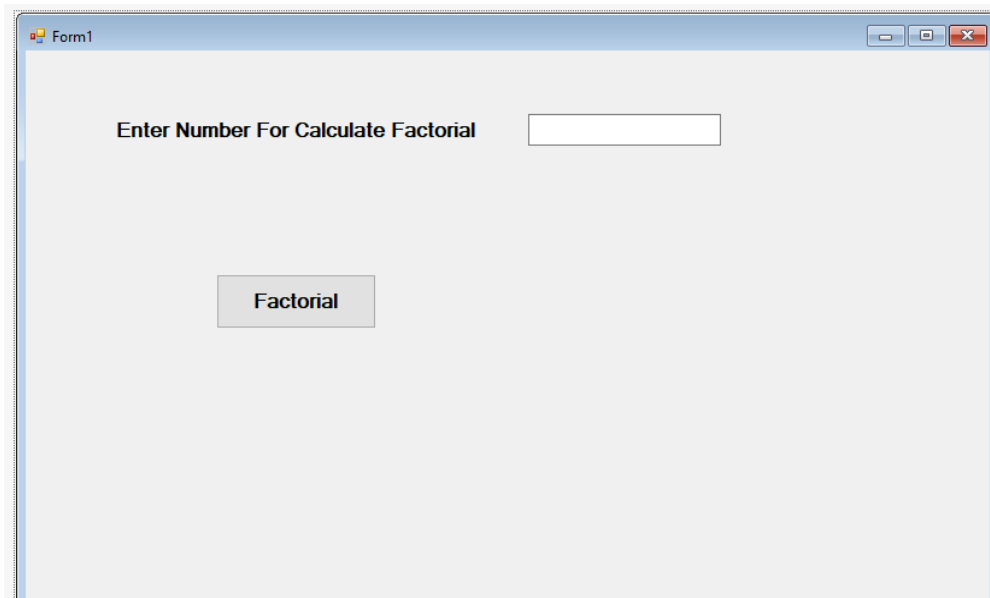
→ If any web resources required.

X. Resources used (Additional)

- <https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox?view=netframework-4.7.2>
- <https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label?view=netframework-4.7.2>
- <https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button?view=netframework-4.7.2>

XI. Program Code

Write a program to demonstrate the use of Button, Textbox and Label.



Public Class Form1

Private Function Factorial(**ByVal** num **As Integer**) **As Long**

Dim fact **As Long** = 1

Dim i **As Integer**

For i = 1 **To** num

fact *= i

Next

Factorial = fact

End Function

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

Dim fact **As Long**

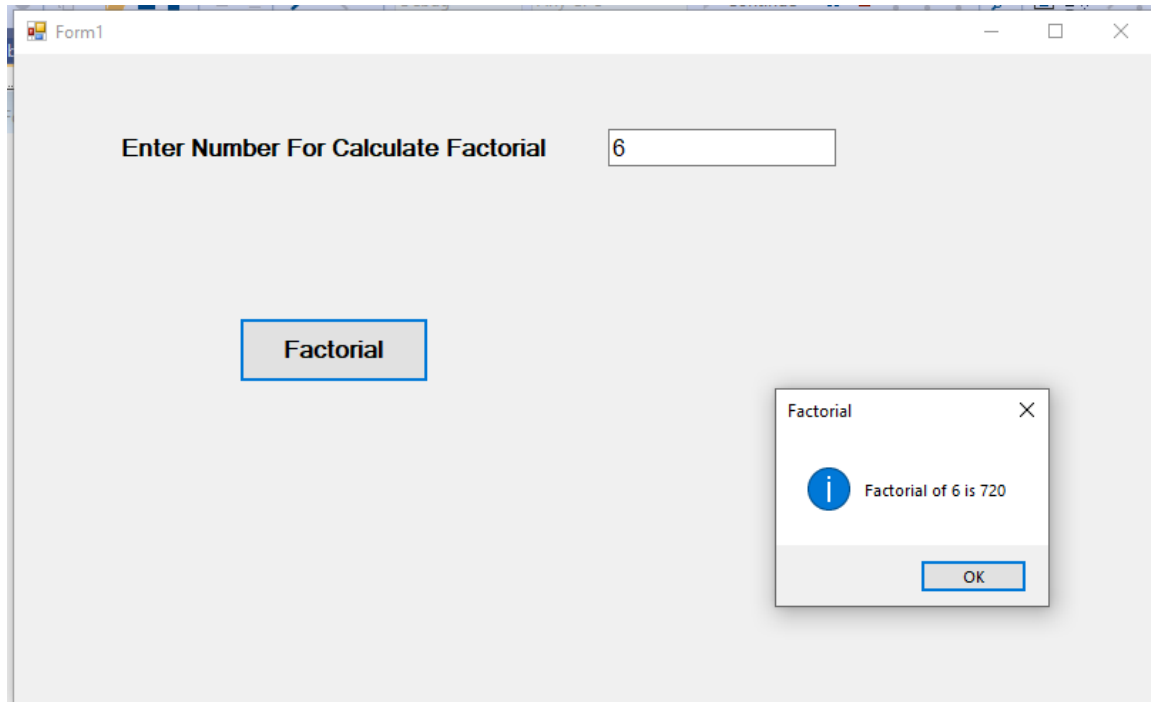
fact = Factorial(TextBox1.Text)

MessageBox.Show("Factorial of " & TextBox1.Text &
" is " & fact, "Factorial", MessageBoxButtons.OK,
MessageBoxIcon.Information)

End Sub

End Class

XII. Results (output of the program)



XIII. Practical related Questions

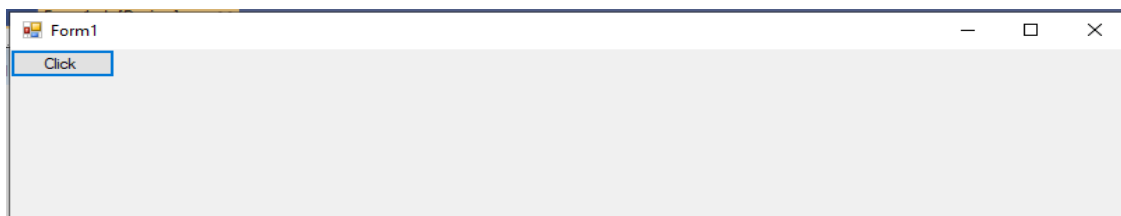
1. Write the use of Tab Index property of the control.

- The following example uses the TabIndex property to display and set the tab order for individual controls. The user can press Tab to reach the next control in the tab order and to display the TabIndex of that control.

2. Write the code to generate button at runtime in VB.Net.

- ```
Public Class Form1
 Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
 Dim b As New Button
 b.Text = "Click"
 Me.Controls.Add(b)
 End Sub
End Class
```

### Output:



#### XIV. Exercise

1. Write a program to perform the arithmetic operations using controls Label, Button and TextBox.



```
Public Class Form1
```

```
 Dim n As Integer
```

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

```
 n = Val(TextBox1.Text) + Val(TextBox2.Text)
```

```
 TextBox3.Text = n
```

```
 End Sub
```

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

```
 n = Val(TextBox1.Text) - Val(TextBox2.Text)
```

```
 TextBox3.Text = n
```

```
 End Sub
```

```
 Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
```

```
 n = Val(TextBox1.Text) * Val(TextBox2.Text)
```

```
 TextBox3.Text = n
```

```
 End Sub
```

```
 Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
```

```
 n = Val(TextBox1.Text) / Val(TextBox2.Text)
```

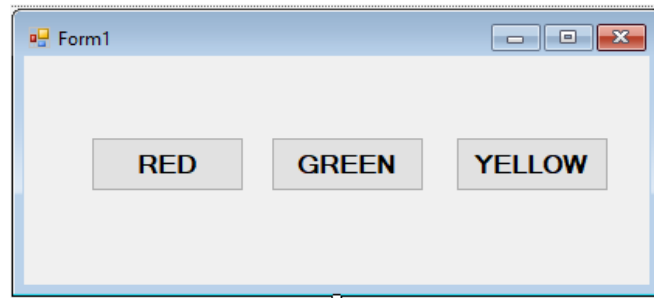
```
 TextBox3.Text = n
```

```
 End Sub
```

```
End Class
```

**Output:**

2. Write a program to change the background color of the form when user clicks on different buttons.



Public Class Form1

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
 Me.BackColor = Color.Red
End Sub
```

```
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
 Me.BackColor = Color.Green
End Sub
```

```
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
 Me.BackColor = Color.Yellow
End Sub
End Class
```

**Output:**

