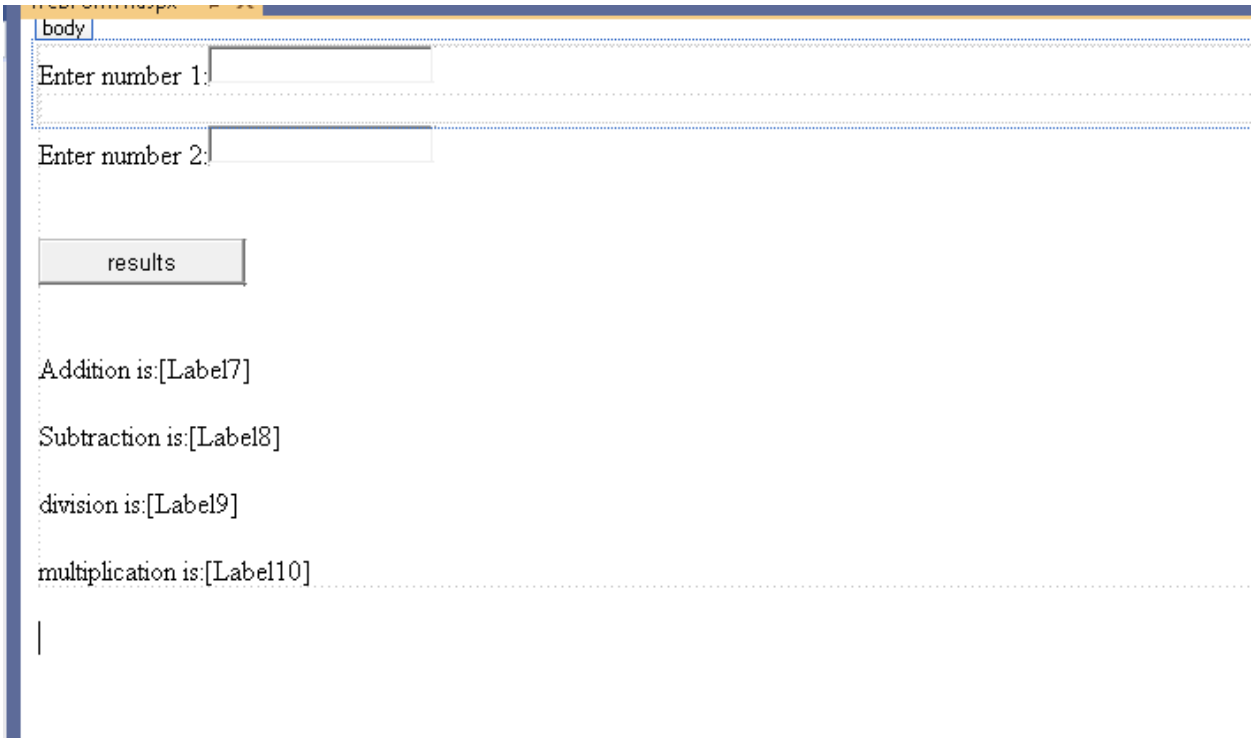
Practical No 01

a) Create an application to print on screen the output of adding, subtracting, multiplying and dividing two numbers entered by the user in C#.

GUI:



Program Code:

.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="practical_1a.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body style="height: 43px">
    <form id="form1" runat="server">
        <asp:Label ID="Label1" runat="server" Text="Enter number 1:"></asp:Label>
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <div>
        </div>
        <asp:Label ID="Label2" runat="server" Text="Enter number 2:"></asp:Label>
        <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
```

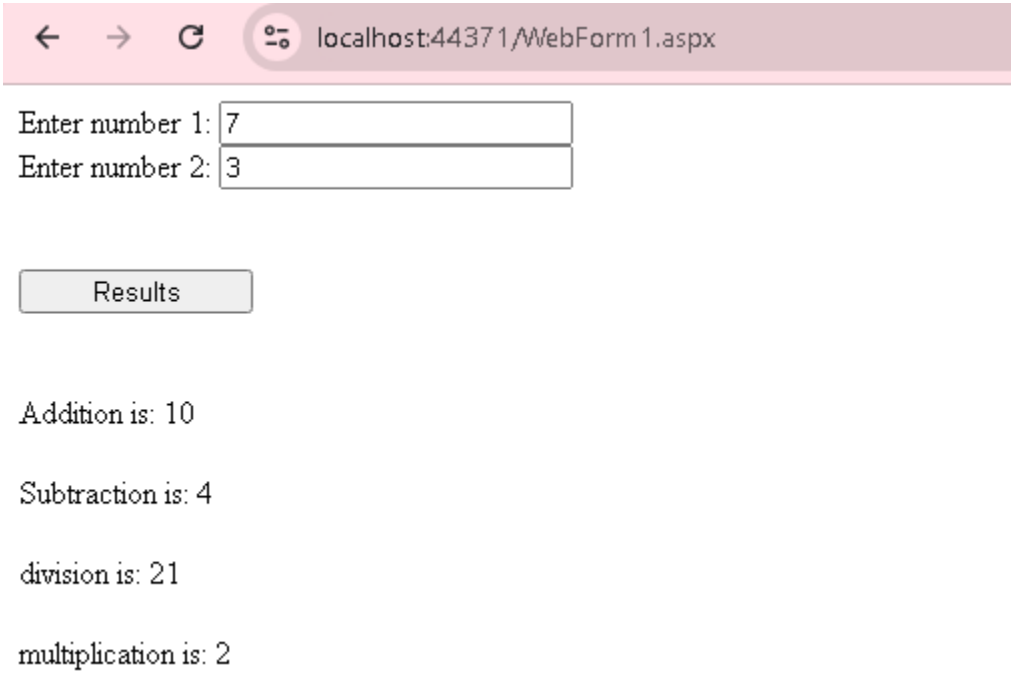
```
        <br />
        <br />
        <br />
        <asp:Button ID="Button1" runat="server" Text="results" Width="117px" />
        <br />
        <br />
        <br />
        <asp:Label ID="Label3" runat="server" Text="Addition is:"></asp:Label>
        <asp:Label ID="Label7" runat="server"></asp:Label>
        <br />
        <br />
        <asp:Label ID="Label4" runat="server" Text="Subtraction is:"></asp:Label>
        <asp:Label ID="Label8" runat="server"></asp:Label>
        <br />
        <br />
        <asp:Label ID="Label5" runat="server" Text="division is:"></asp:Label>
        <asp:Label ID="Label9" runat="server"></asp:Label>
        <br />
        <br />
        <asp:Label ID="Label6" runat="server" Text="multiplication is:"></asp:Label>
        <asp:Label ID="Label10" runat="server"></asp:Label>
    </form>
</body>
</html>
```

.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Reflection.Emit;

namespace practical_1a
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
```

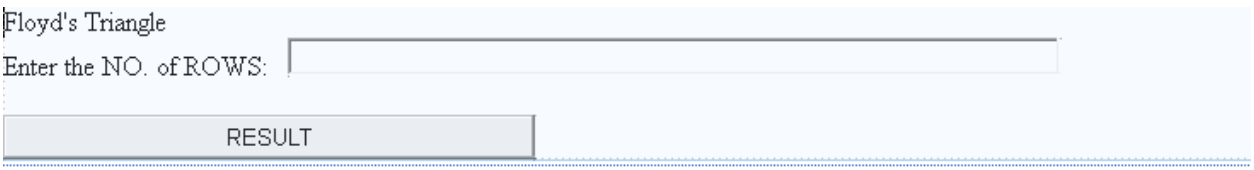
```
        int addition, subtraction, multiplication, division;
        addition = Convert.ToInt32(TextBox1.Text) + Convert.ToInt32(TextBox2.Text);
        subtraction = Convert.ToInt32(TextBox1.Text) - Convert.ToInt32(TextBox2.Text);
        multiplication = Convert.ToInt32(TextBox1.Text) * Convert.ToInt32(TextBox2.Text);
        division = Convert.ToInt32(TextBox1.Text) / Convert.ToInt32(TextBox2.Text);
        Label7.Text = "Addition of the number is: " + addition;
        Label8.Text = " Subtraction of the number is: " + subtraction;
        Label9.Text = "Multiplication of the number is: " + multiplication;
        Label10.Text = "Division of the number is: " + division;

    }
  }
}
```

Output:



b) Create an application to print Floyd's triangle till n rows in C#.

GUI:



Program Code:

.aspx

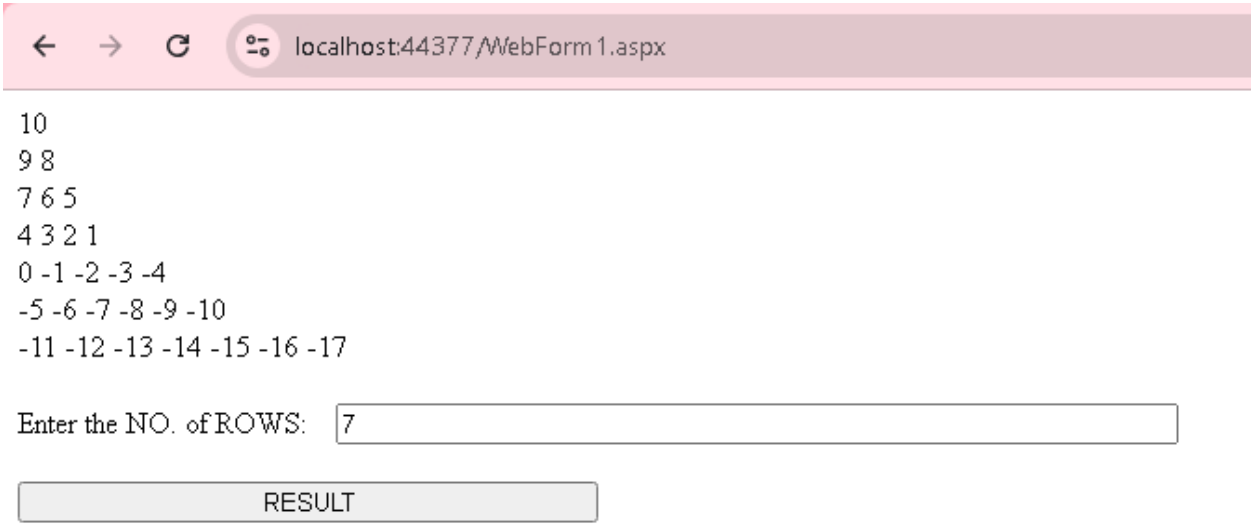
```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="practical1b.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="Label1" runat="server" Text="Floyd's Triangle"></asp:Label>
            <br />
            <asp:Label ID="Label2" runat="server" Text="Enter the NO. of ROWS:"></asp:Label>
  
            <asp:TextBox ID="TextBox1" runat="server"
OnTextChanged="TextBox1_TextChanged" Width="445px"></asp:TextBox>
            <br />
            <br />
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="RESULT"
Width="312px" />
            <br />
        </div>
    </form>
</body>
</html>
```

.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Text;

namespace practical1b
{
    public partial class WebForm1 : System.Web.UI.Page
    {
```

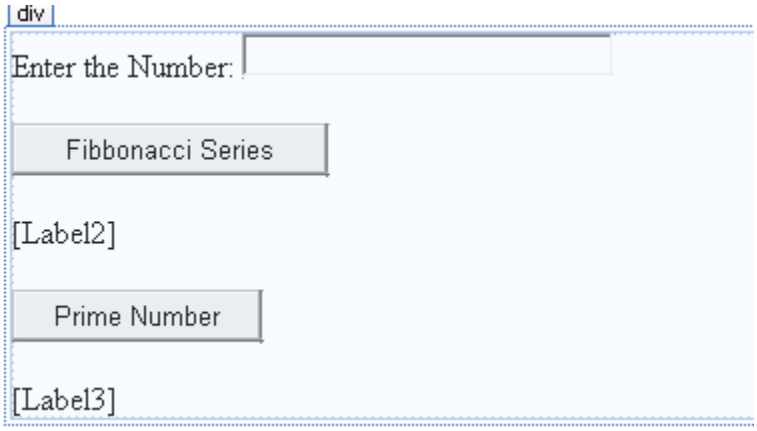
```
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void TextBox1_TextChanged(object sender, EventArgs e)
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        int numofRows = Convert.ToInt32(TextBox1.Text);
        int number = 10;
        StringBuilder sb = new StringBuilder();
        for (int i=1;i<=numofRows;i++) {
            for (int j=1;j<=i;j++) {
                sb.Append(number + " ");
                number--;


             }
           /* sb.Append(i+ " ");*/
            sb.Append("<br/>");
        }
        Label1.Text = sb.ToString();
    }
  }
}
```

Output:



c) Create an application to demonstrate following operations i. Generate Fibonacci series. ii. Test
for prime numbers.

GUI:



Program Code:

.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="practical1cc.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
```

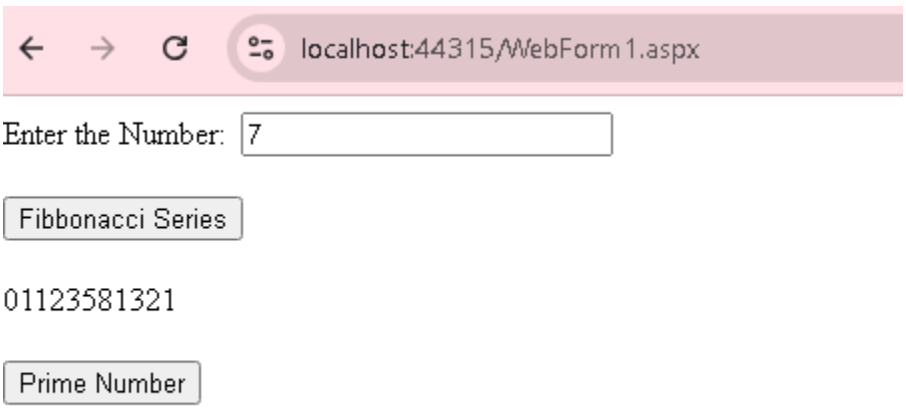
```
   <form id="form1" runat="server">
      <div>
         <asp:Label ID="Label1" runat="server" Text="Enter the Number:"></asp:Label>
 <asp:TextBox ID="TextBox1" runat="server" Width="178px"></asp:TextBox>
         <br />
         <br />
         <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Fibbonacci
Series" />
         <br />
         <br />
         <asp:Label ID="Label2" runat="server"></asp:Label>
         <br />
         <br />
         <asp:Button ID="Button2" runat="server" Text="Prime Number" />
         <br />
         <br />
         <asp:Label ID="Label3" runat="server"></asp:Label>
      </div>
   </form>
</body>
</html>
```

.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace practical1cc
{
   public partial class WebForm1 : System.Web.UI.Page
   {
      protected void Page_Load(object sender, EventArgs e)
      {

      }

      protected void Button1_Click(object sender, EventArgs e)
      {
         int a, b, c, i, n;
         a = 0;
         b = 1;
```

```
        Label2.Text = a.ToString() + b.ToString();
        n = Convert.ToInt32(TextBox1.Text);
        for (i = 1; i <= n; ++i)
        {
            c = a + b;
            Label2.Text = Label2.Text + c.ToString();
            a = b;
            b = c;
        }
    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        int n, i, s = 0;
        n = Convert.ToInt32(TextBox1.Text);
        if (n == 0 || n == 1)
            s = 1;
        for (i = 2; i <= n / 2; ++i)
        {
            if (n % i == 0)
            {
                s = 1;
                break;
            }
        }
        if (s == 0)
            Label3.Text = "The given number is prime";
        else
            Label3.Text = "The given number is not prime";
    }
  }
}
```

Output:


localhost:44315/WebForm1.aspx
Enter the Number: 7
Fibbonacci Series
01123581321
Prime Number