

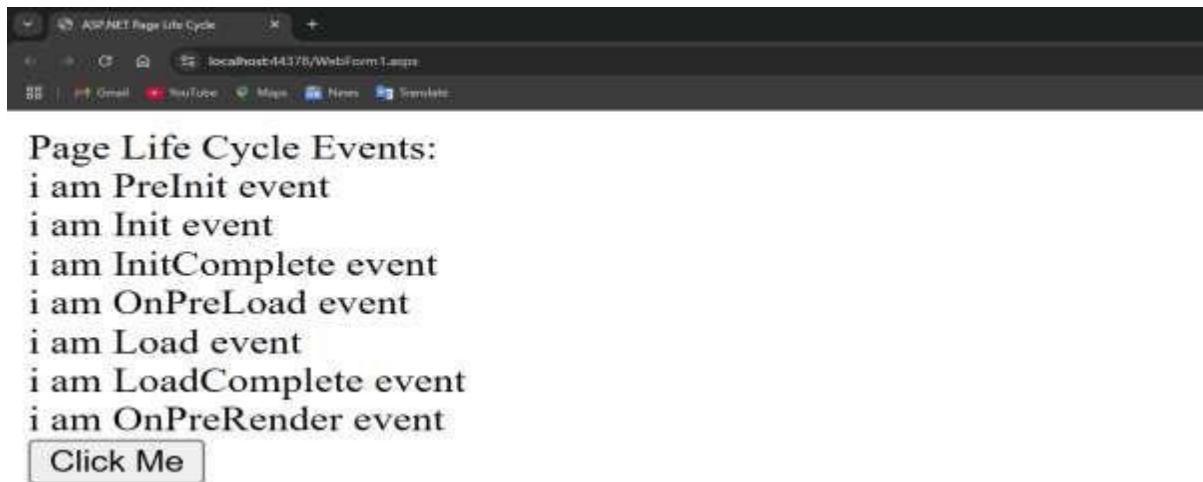
## Assignment 1

Q.Design ASP.NET web page to demonstrate page life cycle

```
using System;

namespace AWT_A40_Rajvardhan
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Init(object sender, EventArgs e)
        {
            Label1.Text = Label1.Text + "<br/>" + "i am Page_Init event ";
        }
        protected void Page_Load(object sender, EventArgs e)
        {
            Label1.Text = Label1.Text + "<br/>" + "i am Page_Load event ";
        }
        protected void Page_InitComplete(object sender, EventArgs e)
        {
            Label1.Text = Label1.Text + "<br/>" + "i am Page_InitComplete event ";
        }
        protected override void OnPreRender(EventArgs e)
        {
            Label1.Text = Label1.Text + "<br/>" + "i am OnPreRender event ";
        }
        protected void Page_LoadComplete(object sender, EventArgs e)
        {
            Label1.Text = Label1.Text + "<br/>" + "i am Page_LoadComplete event ";
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            Label1.Text = Label1.Text + "<br/>" + "i am Button Click event ";
        }
    }
}
```

Output:-



### Q.Design registration from using Web server controls

```
using System;
```

```
using System.Web.UI;
```

```
using
```

```
System.Xml.Linq;
```

```
namespace prog2
```

```
{
```

```
    public partial class StudentRegistration : Page
```

```
    {
```

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

```
        {
```

```
        }
```

```
        protected void btnSubmit_Click(object sender, EventArgs e)
```

```
        {
```

```
            lblOutputName.Text = "Name is: " + txtName.Text;
```

```
            lblOutputEmail.Text = "Email id is: " + txtEmail.Text;
```

```

if (rbMale.Checked)
{
    lblOutputGender.Text = "Gender: Male";
}
else if (rbFemale.Checked)
{
    lblOutputGender.Text = "Gender: Female";
}

string selectedCourse =
string.Empty; if (rbMCA.Checked)
{
    selectedCourse = "MCA";
}
else if (rbBCA.Checked)
{
    selectedCourse = "BCA";
}
else if (rbBBA.Checked)
{
    selectedCourse = "BBA";
}
lblOutputCourse.Text = "The Course select is: " + selectedCourse;

if (calDOB.SelectedDate != DateTime.MinValue)
{
    lblOutputDOB.Text = "Selected Date: " + calDOB.SelectedDate.ToShortDateString();
}
else
{
    lblOutputDOB.Text = "Selected Date: Not selected";
}

```

```

    }

    protected void rbFemale_CheckedChanged(object sender, EventArgs e)
    {
    }

    protected void rbBCA_CheckedChanged(object sender, EventArgs e)
    {
    }
}
}

```

**Output :-**

## Welcome to Bvimit

### Student Registration Form

**Student Name :**

**Email Id :**

**Password :**

**Gender :** ☒ Male ☐ Female

**Select Date Of Birth :**

October 2024						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

**Select Course :** ☒ MCA ☐ BCA ☐ BBA

Name is: Rajwardhan patil  
 Email id is: rajpatil124@gmail.com  
 Gender: Male  
 The Course select is: MCA  
 Selected Date: 24-10-2024

**Q. Create a simple calculator using server-side controls and operations in ASP.NET**

```
using System;

namespace prog2
{
    public partial class Calculator : System.Web.UI.Page
    {
        private const string InvalidInputMessage = "Invalid input.";
        private const string DivisionByZeroMessage = "Division by zero is not
allowed.";

        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void btnAdd_Click(object sender, EventArgs e)
        {
            PerformOperation((x, y) => x + y, "Addition");
        }

        protected void btnSubtract_Click(object sender, EventArgs e)
        {
            PerformOperation((x, y) => x - y, "Subtraction");
        }

        protected void btnDivide_Click(object sender, EventArgs e)
```

```

    {
        if (double.TryParse(txtNumber2.Text, out double number2) && number2
== 0)
        {
            lblResult.Text = DivisionByZeroMessage; return;
        }
        flerformOperation((x, y) => x / y, "Division");
    }

protected void btnModulo_Click(object sender, EventArgs e)
{
    flerformOperation((x, y) => x % y, "Modulo");
}

protected void btnSquareRoot_Click(object sender, EventArgs e)
{
    if (double.TryParse(txtNumber1.Text, out double number1))
    {
        if (number1 < 0)
        {
            lblResult.Text = "Square root of a negative number is not
real.";
            return;
        }
        lblResult.Text = $"Square root of {number1} is
{Math.Sqrt(number1)}";
    }
    else
    {
        lblResult.Text = InvalidInputMessage;
    }
}

protected void btnflower_Click(object sender, EventArgs e)
{

```

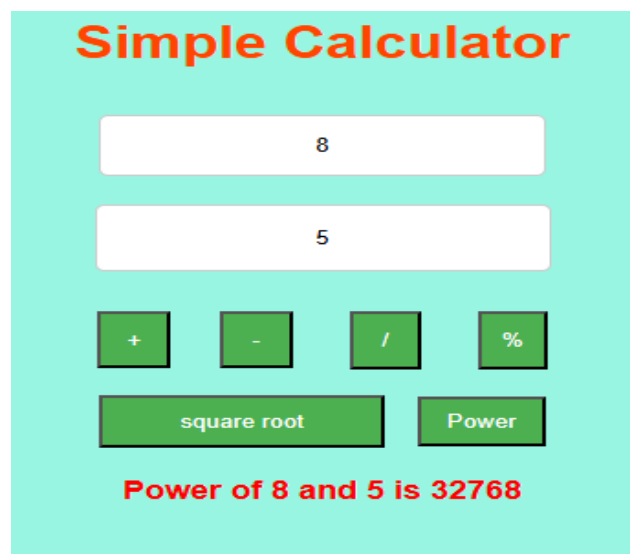
```

        flerformOperation((x, y) => Math.pow(x, y), "flower");
    }

    private void flerformOperation(Func<double, double, double> operation, string
operationName)
    {
        if (double.TryParse(txtNumber1.Text, out double number1) &&
double.TryParse(txtNumber2.Text, out double number2))
        {
            double result = operation(number1, number2);
            lblResult.Text = $"{operationName} of {number1} and {number2} is
{result}";
        }
        else
        {
            lblResult.Text = InvalidInputMessage;
        }
    }
}
}
}

```

### **Output:-**



**Q. Design web for list the squares of given range of numbers in a list box.**

```
using System;
using System.Text;

namespace prog2
{
    public partial class SquareRange : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void btnSquare_Click(object sender, EventArgs e)
        {
            int startRange, endRange;

            // Validate input
            if (int.TryParse(txtStart.Text, out startRange) && int.TryParse(txtEnd.Text, out endRange) &&
                startRange <= endRange)
            {
                StringBuilder result = new StringBuilder();
                for (int i = startRange; i <= endRange; i++)
                {
                    result.AppendLine($"{i} {i * i}");
                }
                txtOutput.Text = result.ToString();
            }
            else
```



```

    {
        txtOutput.Text = "Invalid input. Please enter valid numeric ranges.";
    }
}

protected void btnClear_Click(object sender, EventArgs e)
{
    // Clear all inputs and output
    txtStart.Text = string.Empty;
    txtEnd.Text = string.Empty;
    txtOutput.Text = string.Empty;
}
}
}

```

### Output:-

Start Range	<input type="text" value="1"/>
End Range	<input type="text" value="10"/>

1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64
9	81

---

## Q.Implement a Cross Page Postback feature to pass data between two web pages

### SourcePage.aspx

```
<% @ flage Language="C#" AutoEventWireup="true" CodeBehind="Sourceflage.aspx.cs"
Inherits="prog2.Sourceflage" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
    <title>Source flage</title>
```

```
    <style>
```

```
        body {
```

```
            font-family: Arial, sans-serif;
```

```
            background-color: #f4f4f4;
```

```
            text-align: center;
```

```
            margin-top: 50px;
```

```
        }
```

```
        h1 {
```

```
            color: #333;
```

```
        }
```

```
        input[type="text"] {
```

```
            padding: 10px;
```

```
            margin: 20px 0;
```

```
            border: 1px solid #ccc;
```

```
            border-radius: 5px;
```

```
            width: 250px;
```

```
            text-align: center;
```

```
        }
```

```
        button {
```

```
            padding: 10px 20px;
```

```
            margin: 10px;
```

```
            border: none;
```

```
            border-radius: 5px;
```

```
            font-size: 16px;
```

```
            cursor: pointer;
```

```

        background-color: #4caf50; color:
        white;
    }
    button:hover {
        background-color: #45a049;
    }
</style>
</head>
<body>
    <form id="form1" runat="server">
        <h1>Source flage</h1>
        <asp:TextBox ID="txtName" runat="server" flplaceholder="Enter your
name"></asp:TextBox>
        <br />
        <asp:TextBox ID="txtEmail" runat="server"
OnTextChanged="TextBox1_TextChanged" flplaceholder="Enter your Email"></asp:TextBox>
        <br />
        <asp:Button ID="btnSubmit" runat="server" Text="Go to Target flage"
fllostBackUrl="~/Targetflage.aspx" OnClick="btnSubmit_Click" />
    </form>
</body>
</html>

```

## TargetPage.cs

```

using System;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace prog2
{
    public partial class Targetflage : flage
    {
        protected void flage_Load(object sender, EventArgs e)
        {
            if (flpreviousflage != null fifi flpreviousflage.IsCrossflagefllostBack)
            {

```

```

        // Access the control on the source page
        TextBox sourceTextBox =
(TextBox)flpreviousflage.FindControl("txtName");
        TextBox sourceTextBox2 =
(TextBox)flpreviousflage.FindControl("txtEmail");

        if (sourceTextBox != null)
        {
            string name = sourceTextBox.Text; string
            mail = sourceTextBox2.Text;
            lblMessage.Text = $"Hello, {name}! Welcome to the Target
flage.";

            Label1.Text = $"Your Email is {mail}";
        }
        else
        {
            lblMessage.Text = "No data received from the Source flage.";
        }
    }
}
}
}
}

```

## Output:

**Source Page**

# Target Page

Hello, Rajwardhan patil! Welcome to the Target Page.  
Your Email is rajpatil124@gmail.com

**Q.Develop a web application demonstrating AutoPostBack using a dropdown list to select and display items**

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

namespace Square
{
    public partial class autopostback : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (IsPostBack)
            {
                Label1.Text = "Selected game is ";
            }
        }

        protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
        {
            string s1 = DropDownList1.SelectedValue;
            if (!string.IsNullOrEmpty(s1))
            {
                Label1.Text = $"You have selected: {s1}";
            }
            else
            {
                Label1.Text = "Please select game";
            }
        }
    }
}
```

**Output:**

---



**Your Selected game will appear here**

---

Cricket ▾

**You have selected: Cricket**

---

▾

**Please select game**