**Deccan Education Society’s**

**Navinchandra Mehta Institute of**

**Technology and Development**

**C E R T I F I C A T E**

This is to certify that **Siddharth Jambhavdekar** of M.C.A. Semester II with Roll No. **C22055** has completed practicals of **Advance Web Technologies** under my supervision in this college during the year 2022 -2023.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CO | R1  (Attendance) | R2  (Performance  during lab session) | R3  (Innovation  in problem solving technique) | R4  (Mock  Viva) | R5  **(V**ariation in implementation of learnt topics on projects) |
| CO1 |  |  |  |  |  |
| CO2 |  |  |  |  |  |
| CO3 |  |  |  |  |  |
| CO4 |  |  |  |  |  |

Practical-in-charge Head of Department MCA Department

(NMITD)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **AWT INDEX** | | **DATE** | | | **SIGN** | |
| **Windows Form Application** | | | | | | |
| **I** | 1. **Design a calculator UI based applications using basic Windows forms Controls.** | **06/04** | | |  | |
| **C# Console** | | | | | | |
| **II** | 1. **Design Applications using Classes and Objects** 2. **Design Applications using Inheritance and Abstract Classes** | **10/04** | | |  | |
| **ASP.NET** | | | | | | |
| **III** | 1. **Design a Web Application for an Organization with Registration forms and advanced controls(Validation)** 2. **Create website using master page and theme concept.** | **18/04** | | |  | |
| **ADO.NET** | | | | | | |
| **IV** | 1. **Create a webpage that demonstrates the use of data bound controls of ASP.NET** 2. **Design a webpage to demonstrate a connection oriented architecture.** 3. **Design a webpage to demonstrate a disconnected architecture.** 4. **Design a webpage to demonstrate use of stored procedure.** | **17/05** | | |  | |
| **State Management Techniques** | | | | | | |
| **V** | 1. **Design Web Applications using Client Side Session Managements Techniques** 2. **Design Web Applications using Server Side Session Management Techniques** | **28/05** | | |  | |
| **Web Services and WCF** | |  | | |  | |
| **VI** | 1. **Design Web Application to produce and Consume a web Service** 2. **Design** **Web Application to produce and Consume a WCF Service** | **07/06** | | |  | |
| **ASP.NET MVC** | | | | | | |
| **VII** | 1. **Design MVC based Web applications.** | **09/06** | | |  | |
| **LINQ** | | | | | | |
| **VIII** | 1. **Design a webpage to display the use of LINQ.** | | **12/06** |  | |

**Practical 1**

**Window Form Application**

**Aim:**

A) Design a calculator UI based applications using basic Windows forms Controls.

**Source Code:**

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace Calculator\_UI

{

public partial class Form1 : Form

{

float num1, ans;

int count;

public Form1()

{

InitializeComponent();

}

private void Form1\_Load(object sender, EventArgs e)

{

}

private void button6\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 6;

}

private void button0\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 0;

}

private void DotButton\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + ".";

}

private void button00\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 0 + 0;

}

private void button1\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 1;

}

private void button2\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 2;

}

private void button3\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 3;

}

private void button4\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 4;

}

private void button5\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 5;

}

private void button7\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 7;

}

private void button8\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 8;

}

private void button9\_Click(object sender, EventArgs e)

{

label1.Text = null;

textBox1.Text = textBox1.Text + 9;

}

private void Clear\_Click(object sender, EventArgs e)

{

label1.Text = "Please Enter your Input";

textBox1.Text = null;

}

private void button16\_Click(object sender, EventArgs e)

{

num1 = float.Parse(textBox1.Text);

textBox1.Clear();

textBox1.Focus();

count = 3;

}

public void Compute(int count)

{

switch (count)

{

case 1:

ans = num1 / float.Parse(textBox1.Text);

textBox1.Text = ans.ToString();

break;

case 2:

ans = num1 \* float.Parse(textBox1.Text);

textBox1.Text = ans.ToString();

break;

case 3:

ans = num1 - float.Parse(textBox1.Text);

textBox1.Text = ans.ToString();

break;

case 4:

ans = num1 + float.Parse(textBox1.Text);

textBox1.Text = ans.ToString();

break;

default:

break;

}

}

private void buttonMultiply\_Click(object sender, EventArgs e)

{

num1 = float.Parse(textBox1.Text);

textBox1.Clear();

textBox1.Focus();

count = 2;

}

private void buttonAdd\_Click(object sender, EventArgs e)

{

num1 = float.Parse(textBox1.Text);

textBox1.Clear();

textBox1.Focus();

count = 4;

}

private void Equal\_Click(object sender, EventArgs e)

{

Compute(count);

}

private void buttonDivide\_Click(object sender, EventArgs e)

{

num1 = float.Parse(textBox1.Text);

textBox1.Clear();

textBox1.Focus();

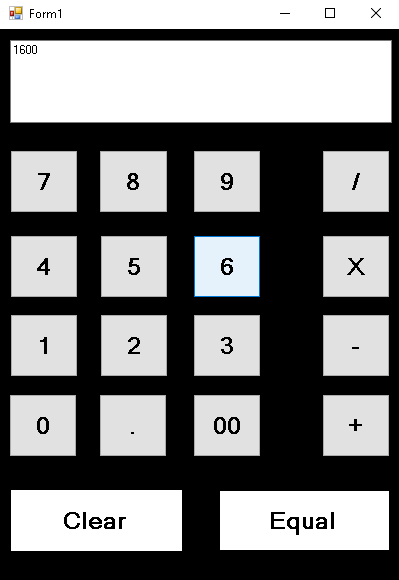
count = 1;

}

}

}

**Output:**



**Practical 2**

**C# Console**

**Aim:**

A) Design Applications using Classes and Objects

**Source Code:**

using System;

class Department

{

public string Name { get; set; }

public string Location { get; set; }

}

class Employee : Department

{

public string EmployeeId { get; set; }

public string Name { get; set; }

public int Age { get; set; }

public void DisplayEmployeeInfo()

{

Console.WriteLine("Employee ID: " + EmployeeId);

Console.WriteLine("Employee Name: " + Name);

Console.WriteLine("Employee Age: " + Age);

Console.WriteLine("Department Name: " + Name);

Console.WriteLine("Department Location: " + Location);

}

}

class Program

{

static void Main(string[] args)

{

Employee emp = new Employee();

emp.EmployeeId = "C22055";

emp.Name = "Siddharth Jambhavdekar";

emp.Age = 22;

emp.Name = "MCA Department";

emp.Location = "Mumbai";

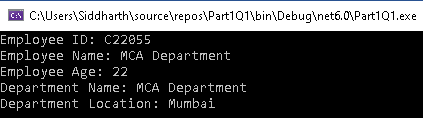
emp.DisplayEmployeeInfo();

Console.ReadLine();

}

}

**Output:**



**Aim:**

B) Design Applications using Inheritance and Abstract Classes

**Source Code:**

**Employee.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Pract2B

{

public abstract class Employee

{

public string Name { get; set; }

public string EmployeeId { get; set; }

public abstract decimal CalculateSalary();

}

}

**Teacher.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Pract2B

{

public class Teacher: Employee

{

public int TeachingExperience { get; set; }

public decimal MonthlySalary { get; set; }

public override decimal CalculateSalary()

{

return MonthlySalary;

}

}

}

**Administrator.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Pract2B

{

internal class Administrator:Employee

{

public decimal MonthlySalary { get; set; }

public int BonusPercentage { get; set; }

public override decimal CalculateSalary()

{

decimal bonus = MonthlySalary \* (BonusPercentage / 100.0m);

return MonthlySalary + bonus;

}

}

}

**Program.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Pract2B

{

class Program

{

static void Main()

{

Teacher teacher = new Teacher()

{

Name = "Siddhart Ganpat Jambhavdekar",

EmployeeId = "C22055",

TeachingExperience = 5,

MonthlySalary = 300000

};

Administrator admin = new Administrator()

{

Name = "Heer Shah",

EmployeeId = "A001",

MonthlySalary = 400000,

BonusPercentage = 10

};

Console.WriteLine($"{teacher.Name} salary: {teacher.CalculateSalary()}");

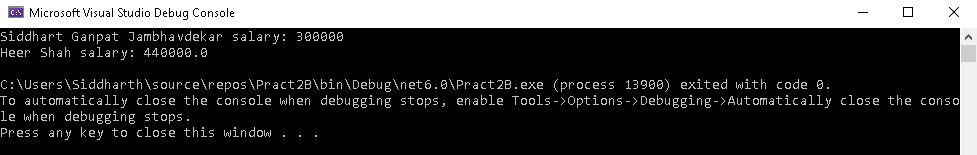
Console.WriteLine($"{admin.Name} salary: {admin.CalculateSalary()}");

}

}

}

**Output:**



**Practical 3**

**ASP.NET**

**Aim:**

A) Design a Web Application for an Organization with Registration forms and advanced controls(Validation)

**Source Code:**

**WebForm1.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="assignment3.\_5.WebForm1" %>

<!DOCTYPE html>

<script runat="server">

</script>

<head>

<title>Registration Page</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<form id="f1" method="post" runat="server">

<fieldset style="width:280px">

<legend>Registration Form</legend>

<table>

<tr>

<td>First Name:</td><td> <asp:textbox id="txt1" runat="server" ></asp:textbox></td>

<td> <asp:RequiredFieldValidator ID="validfname" runat="server" ControlToValidate="txt1" ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator></td>

</tr>

<tr>

<td>Last Name:</td><td> <asp:textbox id="txt2" runat="server" ></asp:textbox></td>

<td><asp:RequiredFieldValidator ID="validlname" runat="server" ControlToValidate="txt2" ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator></td>

</tr>

<tr>

<td>User Name:</td><td> <asp:textbox id="user" runat="server"></asp:textbox></td>

<td><asp:RequiredFieldValidator ID="validuser" runat="server" ControlToValidate="user" ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator></td>

</tr>

<tr>

<td>Password:</td><td><asp:textbox ID="pwd" runat="server" TextMode="Password"></asp:textbox></td>

<td><asp:RequiredFieldValidator ID="validpwd" runat="server" ControlToValidate="pwd" ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator></td>

</tr>

<tr>

<td>Confirm Password:</td><td><asp:textbox ID="Textbox1" runat="server" TextMode="Password"></asp:textbox></td>

</tr>

<tr>

<td>Email:</td><td><asp:TextBox ID="email" runat="server" TextMode="Email" ></asp:TextBox></td>

<td><asp:RequiredFieldValidator ID="validemail" runat="server" ControlToValidate="email" ErrorMessage="required!" ForeColor="Red"></asp:RequiredFieldValidator></td>

</tr>

<tr>

<td>Mobile:</td><td><asp:TextBox ID="mobile" runat="server" TextMode ="Phone"></asp:TextBox></td>

</tr>

<tr>

<td>Gender:</td><td><asp:RadioButtonList ID="RadioButtonList1" runat="server">

<asp:ListItem Text="Male" Value="0"></asp:ListItem>

<asp:ListItem Text="Female" Value="1"></asp:ListItem>

</asp:RadioButtonList></td>

</tr>

<tr>

<td>DOB: </td><td><asp:TextBox ID="dob" runat="server" TextMode="Date" Width="168px"></asp:TextBox> </td>

<td><asp:RequiredFieldValidator ID="validdob" runat="server" ControlToValidate="dob" ErrorMessage="Required" ForeColor="Red"></asp:RequiredFieldValidator></td>

</tr>

<tr>

<td>Course: </td><td><asp:DropDownList ID="ddlCourse" runat="server" datavaluefield="Course" Width="173px">

<asp:ListItem text="Select Course" Value="-1"></asp:ListItem>

<asp:ListItem Text ="BTech" Value ="0"></asp:ListItem>

<asp:ListItem Text ="MCA" Value ="1"></asp:ListItem>

<asp:ListItem Text ="MBA" Value="2"></asp:ListItem>

</asp:DropDownList></td>

<td><asp:RequiredFieldValidator InitialValue="-1" ID="validcourse" runat="server" ControlToValidate="ddlCourse" ErrorMessage="Required!" ForeColor="Red"></asp:RequiredFieldValidator></td>

</tr>

<tr>

<td>Nationality:</td><td><asp:CheckBox ID="check" Text="Indian" runat="server"/><asp:CheckBox id="checkNat" Text="Others" runat="server" /></td>

</tr>

<tr>

<td>Profile: </td><td><asp:Image id="img" ImageUrl="" runat="server" /></td>

</tr>

<tr>

<td></td><td><asp:FileUpload ID="imgupload" runat="server" Enabled="true" /></td>

</tr>

<tr>

<td><asp:Button ID="btn1" runat="server" Text="Submit"></asp:Button></td>

<td><asp:Button ID="btn2" runat="server" Text="Reset"></asp:Button></td>

</tr>

</table>

</fieldset>

</form>

</body>

</html>

**Web.config**

<?xml version="1.0" encoding="utf-8"?>

<!--

For more information on how to configure your ASP.NET application, please visit

https://go.microsoft.com/fwlink/?LinkId=169433

-->

<configuration>

<system.web>

<compilation debug="true" targetFramework="4.7.2" />

<httpRuntime targetFramework="4.7.2" />

</system.web>

<system.codedom>

<compilers>

<compiler language="c#;cs;csharp" extension=".cs" type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:default /nowarn:1659;1699;1701" />

<compiler language="vb;vbs;visualbasic;vbscript" extension=".vb" type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" warningLevel="4" compilerOptions="/langversion:default /nowarn:41008 /define:\_MYTYPE=\&quot;Web\&quot; /optionInfer+" />

</compilers>

</system.codedom>

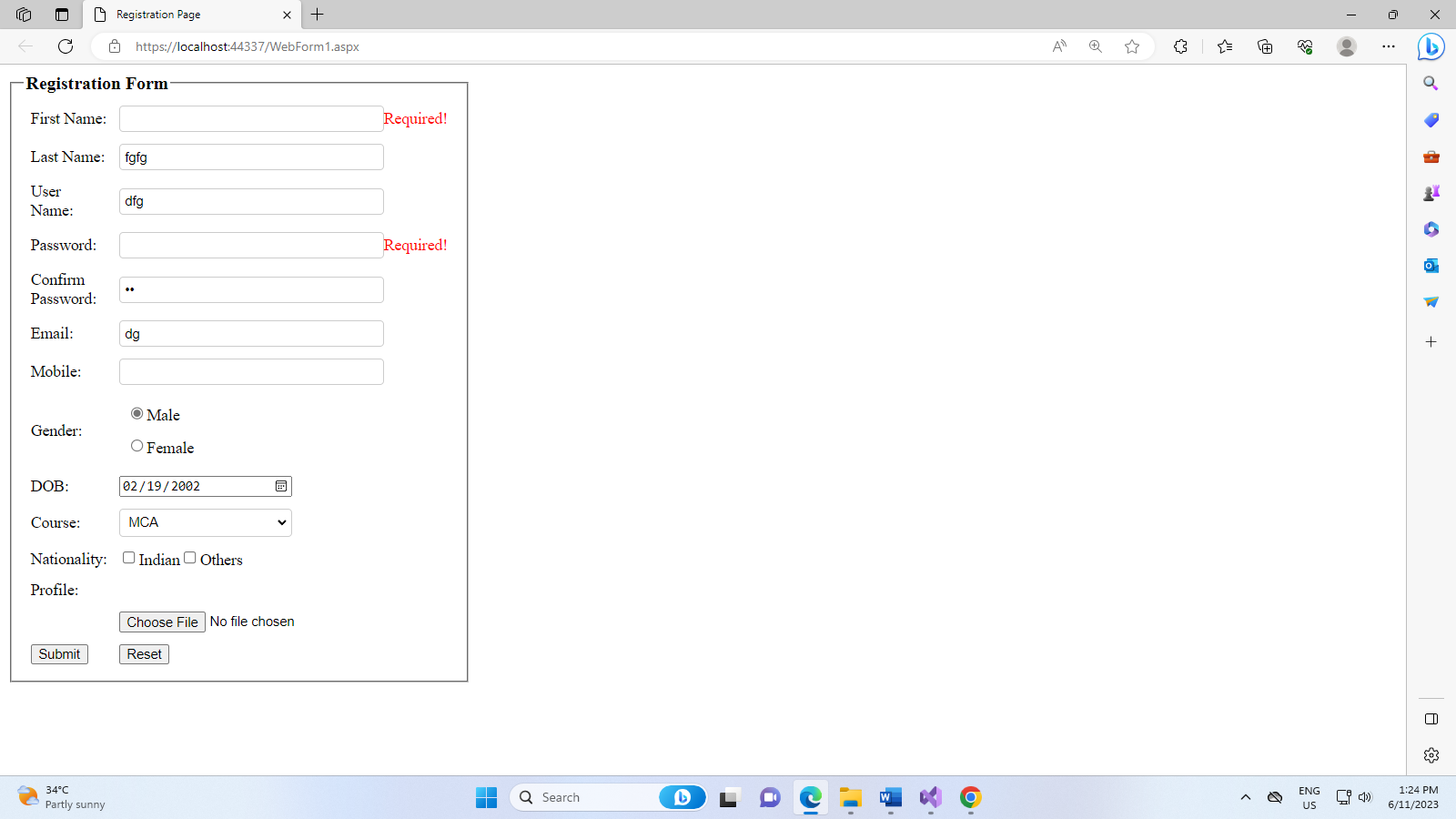
<appSettings>

<add key="ValidationSettings:UnobtrusiveValidationMode" value="None" />

</appSettings>

</configuration>

**Output:**



**Aim:**

B) Create website using master page and theme concept.

**Source Code:**

**Site1.Master**

<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"

Inherits="PracMaster.Site1" %>

<!DOCTYPE html>

<html>

<head runat="server">

<title></title>

<asp:ContentPlaceHolder ID="head" runat="server">

</asp:ContentPlaceHolder>

<link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

<script src="https://cdn.jsdelivr.net/npm/jquery@3.6.4/dist/jquery.slim.min.js"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<form id="form1" runat="server">

<div>

<!-- Grey with black text -->

<nav class="navbar navbar-expand-sm bg-dark navbar-dark">

<ul class="navbar-nav">

<li class="nav-item ">

<a class="nav-link" href="WebForm1.aspx">Home</a>

</li>

<li class="nav-item">

<a class="nav-link" href="Sport.aspx">Sports</a>

</li>

<li class="nav-item">

<a class="nav-link" href="Entertainment.aspx">Entertainment</a>

</li>

<li class="nav-item">

<a class="nav-link disabled " href="#">Politics</a>

</li>

</ul>

</nav>

<asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">

</asp:ContentPlaceHolder>

</div>

</form>

</body>

</html>

**WebForm1.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"

CodeBehind="WebForm1.aspx.cs" Inherits="PracMaster.WebForm1" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

<style type="text/css">

.auto-style1 {

width: 1623px;

height: 785px;

}

</style>

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

<img src="news.jpg" class="auto-style1" />

</asp:Content>

**Entertainment.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"

CodeBehind="Entertainment.aspx.cs" Inherits="PracMaster.Entertainment" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

<center>

<img src="prabhas-2-2.jpg" />

<h3>Controversial Adipurush dialogues altered after public pressure, ‘jalegi tere baap ki’

changed to ‘jalegi bhi teri Lanka’</h3>

</center>

<p style="text-align:left">

Days after its debut, the objectionable dialogues in the film Adipurush have been altered. The

new version of the movie is now being screened in theatres, as per sources. A section of the film’s

core audience objected to certain lines of dialogue in the film, based on the Hindu epic Ramayana.

It was suggested that some lines, penned by lyricist-writer Manoj Muntashir, had a pedestrian

quality that didn’t respect the sanctity of the source material.

The Central Board of Film Certification, which had previously given Adipurush a U certificate,

approved of the changes on June 19, according to a report on Filminformation.com. The official

CBFC website also lists Adipurush as having been re-certified on June 19, after being initially

cleared on June 12. The film was released on June 16. Here’s a list of the original lines, and the

new versions:

<br />1. Tu andar kaise ghusa… tu jaanta bhi hai kaun hoon main, has been replaced by, Tum

andar kaise ghuse… tum jaante bhi ho kaun hoon main.

<br />2. Kapda tere baap ka… toh jalegi bhi tere baap ki, has been modified to, Kapda teri Lanka

ka… toh jalegi bhi teri Lanka.

<br />3. Jo hamari behno… unki Lanka laga denge, has been replaced by, Jo hamari behno… unki

Lanka mein aag laga denge.

<br />4. Mere ek sapole ne tumhare iss sheshnaag ko lamba kar diya… bhara pada hai, has been

changed to, Mere ek sapole ne tumhare iss sheshnaag ko samapt kar diya… bhara pada hai.<br />

Backlash against the dialogues was observed on the first day of release itself, with many critics and

audience members noting their jarring quality. A day after release, Muntashir was asked about this

in an interview with the Republic, and he claimed to have grown up listening to versions of the

Ramayana told in colloquial language. A day after that, he told Aaj Tak that Adipurush isn’t an

adaptation of the Ramayana after all, but is ‘inspired’ by it. Later that same day, he announced

that the objectionable lines will be altered to honour audience sentiment.

Earlier this week, Muntashir said that the studio’s decision to change these lines is ‘brave’, and

they did it despite knowing what a ‘logistical nightmare’ it would present. Adipurush is directed by

Om Raut, who said in the Republic interview that he is more concerned about audience response

than reviews. But there seem to be few takers for the movie, which has experienced historical

drops at the box office after delivering big numbers over the opening weekend. After five days, the

film’s worldwide gross collection stands at Rs 395 crore. It was reportedly produced on a budget of

at least Rs 500 crore.

</p>

</asp:Content>

**Sport.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"

CodeBehind="Sport.aspx.cs" Inherits="PracMaster.Sport" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

<center>

<p>

<img src="englandvsaus.jpg" />

</p>

<h3>Ashes 2023: Australians seal edge-of-the-seat thriller to surge ahead in series</h3>

<p>

The ball was veering onto his body. Pat Cummins shuffled across and paused and opened

the face of his bat to guide it to square third man. The ball was trickling to the fence, the outfield

made heavy by the rain. Zak Crawley was galloping from his fielding station to stop the ball. But in

the middle, Cummins and Nathan Lyon were running for their lives, one eye on the ball, one ear on

their partner’s call, the mind but a scrambled blur of thoughts.

</p>

<p>

rope, wrapping up a two-wicket win in the crimson twilight of Edgbaston, to conclude a

match of epic stature, one that was subject to wicked twists and turns, till the match could no

longer twist and turn. Cummins, who scored the most precious 44 runs of his career and stitched a

match-winning 55-run stand with Lyon, threw his helmet into the distance; Lyon climbed on his

captain. Cummins ran in circles, flexed his biceps and smiled as broad as he could. In the glassed

dressing room, their teammates went berserk, before they ran onto the field, past scattered and

devastated England counterparts. Some stopped and commiserated, but when the euphoria and

devastation sank in, they would reflect on a truly ageless classic.

But how did it get this far! When Joe Root clung onto a return catch from Alex Carey — he had

spilled a couple earlier —the match seemed to drift beyond Australia’s grasp. A few overs ago, Ben

Stokes had consumed Usman Khawaja to lift England’s hopes of a straightforward victory.

</p>

<p>

When Lyon united with Cummins, their team was still 54 runs away from victory. England

celebrated the fall of Carey as though they had won the match. They surely were on match point.

Or was it Ashes Edgbaston Part 2? The narrative unfolded in an eerily similar way.

But Cummins and Lyon are made of steelier and sterner stuff to give up the game. Adversity has

often channelled the best out of them. Cummins, whose batting is often understated, decided to

counterpunch. He has the requisites of a competent lower-order batsman, a robust technique,

ability to swing those arms down the ground, and beyond all these physical attributes, a serenity,

a perspective about him. He thundered Root for a pair of sixes in the space of three balls. These

two shots tore through the morale of England’s cricketers.

The long overdue new ball was flung to Stuart Broad. But Cummins flayed him in front of square.

In Broad’s next over, Lyon laced a glorious four down the ground. As the pair whittled down the

target, England’s nerves clutched and tightened. A mid-pitch discussion broke after every ball.

Cummins and Lyon would just nod and flick a thumbs up. Sometimes with a grin, often with an

assuringly sober face. England would try everything they could to force another twist — short-ball

therapy, yorker barrage. But Cummins and Lyon weathered the storm phlegmatically.

Scenario-plotting

The what ifs would hurt and haunt England. What if Root had clung onto Cummins’ catch when he

was on seven? What if Stokes had clung onto a Lyon skier when he was on one? Did England take

the new ball a bit too late? Should they have taken it at all? There was ample purchase for Root’s

off-breaks. The hard new ball travelled faster to the rope. Besides, there was little assistance for

the seamers with the new ball. And the biggest debate of them all — did England blunder when

declaring on 393/8 on the first evening? Was it daring or arrogance? Did they recklessly throw

their wickets away in the second innings? Did they make a mistake in not hurling the new ball to

James Anderson? He had looked gingery throughout the game, but Anderson is Anderson.

Therein lies the enduring charm of an epic Test match — the what ifs and what nots that would

stamp themselves to the mind of the audience, lurk as invisible notes in the scorecards. It’s a Test

that would be told and retold several times in different parts of the world.

But such twists and turns did not seem to arrive at half time.

The teams parted for tea after two hours of slow see-sawing, the game still not tipping to either

side. Both sides could perceive the scenario as a glass half-full or half-empty. England heckled only

a pair of wickets, one of them night- watchman Scott Boland for a frustrating 20 and the other a

flaky Travis Head. But England, sticking to diligent lengths and sometimes left-of-left-field field

settings, had a noose on the scoring for most of the time. In 29 overs, Australia mustered only 76

runs, a crawl by England’s new dizzying standards. But the pace of scoring hardly bothered the

visitors. Not for them the keeping-up-with-the-Joneses temptation. They would grit, graft and

grind the old-fashioned way, a no-nonsense, no-frills approach, that fidgeted rather than thrilled.

Typically, Khawaja embodied their approach, batting as if in an invisible astronaut’s helmet,

pressure- and temptation-proof. He hit just one four, courtesy a Moeen Ali full toss. Then,

Australia themselves fetched just five fours in a session that seemed an antithesis to England’s

brave new leitmotif. Singles and twos, not the stolen types but straightforward ones, kept the

scoreboard ticking along. Apart from a stray instance of Head backing away to Stuart Broad and

trying to sledgehammer him through cover, Australia’s batsmen exhibited hardly any portent of

counterpunching. Head’s 24-ball 16 was the only phase in the game where excitement brimmed.

He slashed, slapped and swished before Moeen Ali snaffled him with a ripping off-break.

Ali, inhibited by his battered fingers, would soon lose his control and was replaced with Root’s

part-time all-sorts. Ali was sorely missed on a deck that conspired with the spinners, against a lefthand-heavy batting firm.

Endgame

There was precious little assistance for the seamers on a surface slower than Bengaluru traffic,

apart from the cloud cover upon resumption, which soon disappeared. Once the conventional

tricks proved ineffective, England resorted to cross-seam deliveries and back-of-the hand knuckle

balls, but without reward, as Khawaja and Cameron Green knuckled down.

The kiss of life for England arrived in fifth over of the final session, when Green hacked an Ollie

Robinson in-ducker to the base of his off-stump, thus ending a 49-run alliance that seemed to

steer Australia closer to the shores of victory. An unusual stroke of indecisiveness seized Green,

who was hitherto clear-headed. Maybe, he was readying to wear a bouncer after Robinson had

deputed a fielder at deep square-leg. He hung on his back-foot, shuffled across, and looked to dab

to third-man, but was suffocated for room.The moment was ripe to ratchet up the aggression.

Robinson, as he had all through the day, was all fire and brimstone. He did not strain the speedgun but in-your-face machismo rattled Australia for the first time in the day. At the other end,

Root spat one past Khawaja’s defensive thrust and maintained the pressure. Just three runs were

accrued in the next four overs. Tension brimmed over. Jonny Bairstow amped up his chirp behind

the stumps. The close-in field cordon swooped in like vultures over their prey. A momentum shift

was perceptible. After adding 17 more, Australia lost Khawaja and then Carey. But in the end, the

purpose of the collapse was to make Cummins and Lyon heroes. Timeless Ashes heroes.

</p>

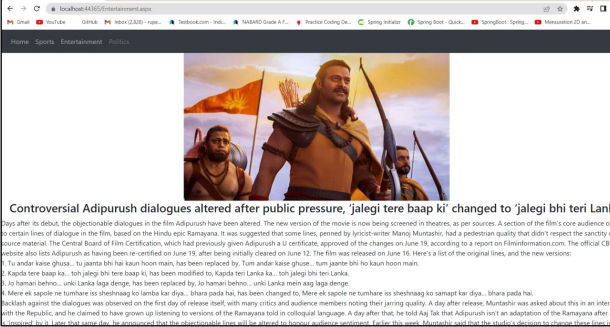
</center>

</asp:Content>

**Output:**







**Practical 4**

**ADO.NET**

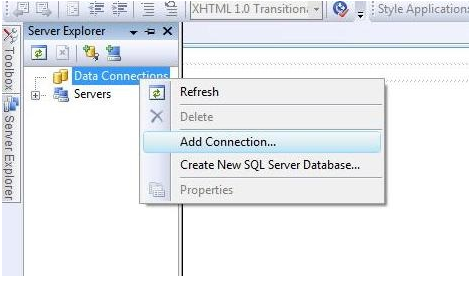
**Aim:**

A) Create a webpage that demonstrates the use of data bound controls of ASP.NET

**Source Code:**

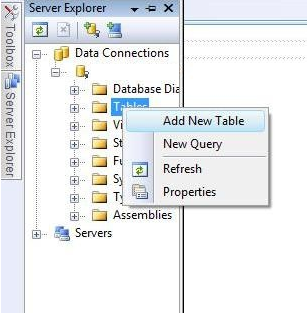
**Step1:**

Add a new connection object to the ASP.NET web application as shown below:



**Step 2:**

Next, add a new table for the connection object created above. The snippet for adding the table is as shown below:

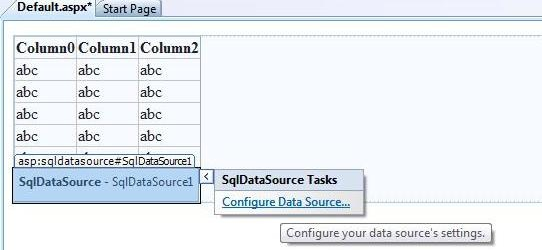


**Step 3:**

Add the fields Sno, Name, Address in the table. Add values to the respective fields in the table

**Step 4:**

Add the GridView and SqlDataSource control to the design view of the web page.



**Step 5:**

The source code for the GridView control is as shown below:

<%@Page Language=”C#” AutoEventWireup=”true” CodeFile=”binding.aspx.cs” Inherits=”binding” %>

<!DOCTYPE html PUBLIC “-//W3C//DTD XHTML 1.0 Transitional//EN”

“http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd”>

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

<head runat=”server”>

<title></title>

</head>

<body>

<form id=”form1” runat=”server” >

<asp:Button ID=”Button1” runat=”server” onclick=”Button1\_Click” Text=”GetData” Width=”123px” />

<br/>

<div>

<asp:GridView ID=”GridView1” runat=”server”>

</asp:GridView>

</div>

</form>

</body>

</html>

**Step 6:**

The code behind file contains the following code

protected void Button1\_Click(object sender, EventArgs e)

{

SqlConnection con = new SqlConnection();

con.ConnectionString = ConfigurationManager.ConnectionStrings

[ “ConnectionString” ].ToString();

con.Open();

SqlCommand cmd = new SqlCommand();

cmd.CommandText = “Select \* from deltable”;

cmd.Connection = con;

DataSet ds = new DataSet();

da.Fill( ds, “deltable”);

GridView1.DataSource= ds;

GridView1.DataBind();

}

**Output:**



**Aim:**

**B) Design a webpage to demonstrate a connection oriented architecture.**

**Source Code:**

**WebFromAdoNet.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebFormAdoNet.aspx.cs"

Inherits="ado.netWebFormExample.WebFormAdoNet" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<style type="text/css">

.auto-style1 {

width: 100%;

}

.auto-style2 {

width: 100px;

}

.auto-style3 {

width: 95px;

}

</style>

</head>

<body>

<form id="form1" runat="server">

<div>

<table class="auto-style1">

<tr>

<td class="auto-style2">

<asp:Label runat="server" Text="User Name" ID="usernamelabelId"></asp:Label></td>

<td>

<asp:TextBox ID="UsernameId" runat="server"></asp:TextBox></td>

</tr>

<tr>

<td class="auto-style2">

<asp:Label runat="server" Text="Email ID"></asp:Label></td>

<td>

<asp:TextBox ID="EmailId" runat="server"></asp:TextBox></td>

</tr>

<tr>

<td class="auto-style2">

<asp:Label runat="server" Text="Contact"></asp:Label></td>

<td>

<asp:TextBox ID="ContactId" runat="server"></asp:TextBox></td>

</tr>

<tr>

<td class="auto-style2"></td>

<td>

<asp:Button ID="ButtonId" runat="server" Text="Submit" OnClick="ButtonId\_Click" /></td>

</tr>

</table>

</div>

<div>

<asp:Label ID="Label1" runat="server"></asp:Label>

</div>

</form>

<table class="auto-style1">

<tr>

<td class="auto-style3">

<asp:Label ID="Label2" runat="server"></asp:Label></td>

<td>

<asp:Label ID="Label5" runat="server"></asp:Label></td>

</tr>

<tr>

<td class="auto-style3">

<asp:Label ID="Label3" runat="server"></asp:Label></td>

<td>

<asp:Label ID="Label6" runat="server"></asp:Label></td>

</tr>

<tr>

<td class="auto-style3">

<asp:Label ID="Label4" runat="server"></asp:Label></td>

<td>

<asp:Label ID="Label7" runat="server"></asp:Label></td>

</tr>

</table>

</body>

</html>

**WebFormAdoNet.aspx.cs**

using System;

using System.Data.SqlClient;

namespace ado.netWebFormExample

{

public partial class WebFormAdoNet : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void ButtonId\_Click(object sender, EventArgs e)

{

SqlConnection con = null;

try

{

// Creating Connection

con = new SqlConnection("data source=.; database=student; integrated security=SSPI");

// Writing insert query

string query = "insert into student(name,email,contact)values('"+UsernameId.Text+ "',

'" + EmailId.Text + "','" + ContactId.Text + "')";

SqlCommand sc = new SqlCommand(query,con);

// Opening connection

con.Open();

// Executing query

int status = sc.ExecuteNonQuery();

Label1.Text = "Your record has been saved with the following details!";

// ----------------------- Retrieving Data ------------------ //

SqlCommand cm = new SqlCommand("select top 1 \* from student", con);

// Executing the SQL query

SqlDataReader sdr = cm.ExecuteReader();

sdr.Read();

Label2.Text = "User Name"; Label5.Text = sdr["name"].ToString();

Label3.Text = "Email ID"; Label6.Text = sdr["email"].ToString();

Label4.Text = "Contact"; Label7.Text = sdr["contact"].ToString();

}

catch (Exception ex)

{

Console.WriteLine("OOPs, something went wrong." + ex);

}

// Closing the connection

finally

{

con.Close();

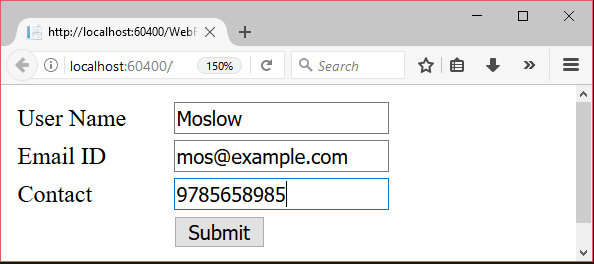
}

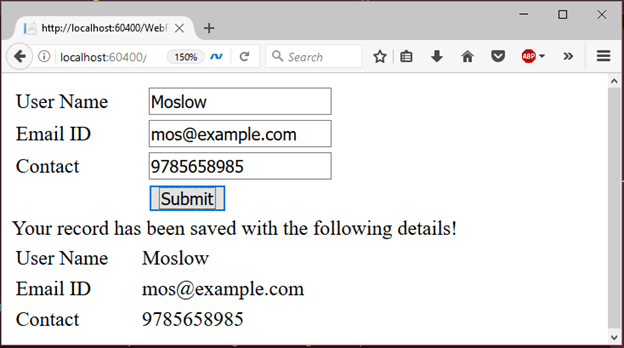
}

}

}

**Output:**





**Aim:**

**C) Design a webpage to demonstrate a disconnected architecture.**

**Source Code:**

**WebForm1.aspx**

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

Inherits="DisconnectedArch.WebForm1" EnableEventValidation="False" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<style type="text/css">

.center-table {

margin: 0 auto; /\* Set left and right margins to auto \*/

}

</style>

</head>

<body>

<form id="form1" runat="server">

<center>

<div>

<asp:Label ID="Label1" runat="server" Text="Disconnected Architecture"></asp:Label>

<br />

<br />

<br />

<table align="center" class="center-table auto-style1">

<tr>

<td>

<asp:Label ID="Label2" runat="server" Text="Id"></asp:Label>

</td>

<td>

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td class="auto-style2">

<asp:Label ID="Label3" runat="server" Text="Name"></asp:Label>

</td>

<td class="auto-style2">

<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td>

<asp:Label ID="Label4" runat="server" Text="City"></asp:Label>

</td>

<td>

<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>

</td>

</tr>

</table>

<br />

<br />

<asp:Button ID="Insert" runat="server" Text="Insert" BackColor="#66FF99"

OnClick="Insert\_Click" />

&nbsp;&nbsp;&nbsp;

<asp:Button ID="Update" runat="server" Text="Update" BackColor="#FFFF99"

OnClick="Update\_Click" />

&nbsp;&nbsp;&nbsp;

<asp:Button ID="Delete" runat="server" Text="Delete" BackColor="#FF3300"

OnClick="Delete\_Click" />

<br />

<br />

<asp:GridView ID="GridView1" runat="server"

OnRowDataBound="GridView1\_RowDataBound"

OnSelectedIndexChanged="GridView1\_SelectedIndexChanged" >

</asp:GridView>

<br />

</div>

</center>

</form>

</body>

</html>

**WebForm1.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Data;

using System.Data.SqlClient;

namespace DisconnectedArch

{

public partial class WebForm1 : System.Web.UI.Page

{

SqlConnection con;

SqlDataAdapter myAdapter;

static int sinindex;

protected void Page\_Load(object sender, EventArgs e)

{

con = new SqlConnection();

con.ConnectionString = @"Data Source=RUPESH\SQLEXPRESS;Initial

Catalog=rupesh;Integrated Security=True";

con.Open();

string query = "select \* from employee";

myAdapter = new SqlDataAdapter(query, con);

DataSet ds = new DataSet();

myAdapter.Fill(ds);

GridView1.DataSource = ds;

GridView1.DataBind();

}

protected void Insert\_Click(object sender, EventArgs e)

{

string query = "select \* from employee";

myAdapter = new SqlDataAdapter(query, con);

DataSet ds = new DataSet();

myAdapter.Fill(ds);

SqlCommandBuilder cmb = new SqlCommandBuilder(myAdapter);

DataRow dr = ds.Tables[0].NewRow();

dr["Id"] = TextBox1.Text;

dr["Name"] = TextBox2.Text;

dr["City"] = TextBox3.Text;

ds.Tables[0].Rows.Add(dr);

myAdapter.Update(ds);

GridView1.DataSource = ds;

GridView1.DataBind();

}

protected void Update\_Click(object sender, EventArgs e)

{

string query = "select \* from employee";

myAdapter = new SqlDataAdapter(query, con);

DataSet ds = new DataSet();

myAdapter.Fill(ds);

SqlCommandBuilder cmb = new SqlCommandBuilder(myAdapter);

DataRow dr = ds.Tables[0].Rows[sinindex];

dr["Id"] = Convert.ToInt32(TextBox1.Text);

dr["Name"] = TextBox2.Text;

dr["City"] = TextBox3.Text;

myAdapter.Update(ds);

GridView1.DataSource = ds;

GridView1.DataBind();

}

protected void Delete\_Click(object sender, EventArgs e)

{

string query = "select \* from employee";

myAdapter = new SqlDataAdapter(query, con);

DataSet ds = new DataSet();

myAdapter.Fill(ds);

SqlCommandBuilder cmb = new SqlCommandBuilder(myAdapter);

ds.Tables[0].Rows[sinindex].Delete();

myAdapter.Update(ds);

GridView1.DataSource = ds;

GridView1.DataBind();

}

protected void GridView1\_SelectedIndexChanged(object sender, EventArgs e)

{

TextBox1.Text = GridView1.SelectedRow.Cells[0].Text;

TextBox2.Text = GridView1.SelectedRow.Cells[1].Text;

TextBox3.Text = GridView1.SelectedRow.Cells[2].Text;

sinindex =GridView1.SelectedIndex;

}

protected void GridView1\_RowDataBound(object sender, GridViewRowEventArgs e)

{

if (e.Row.RowType == DataControlRowType.DataRow) {

e.Row.Attributes["onclick"] =

Page.ClientScript.GetPostBackClientHyperlink(GridView1, "select$" + e.Row.RowIndex);

e.Row.ToolTip = "Click to select this row";

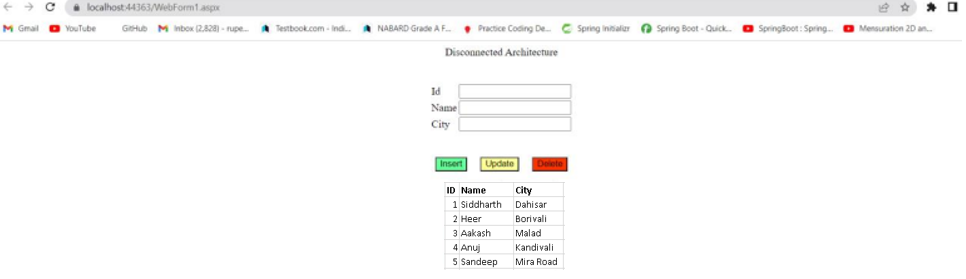
}

}

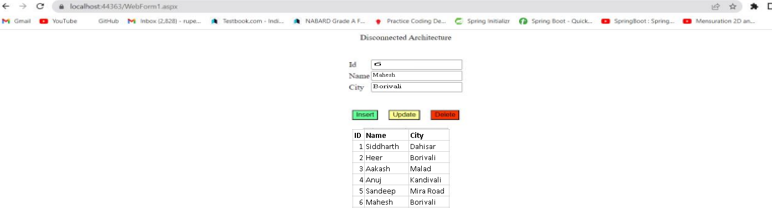
}

}

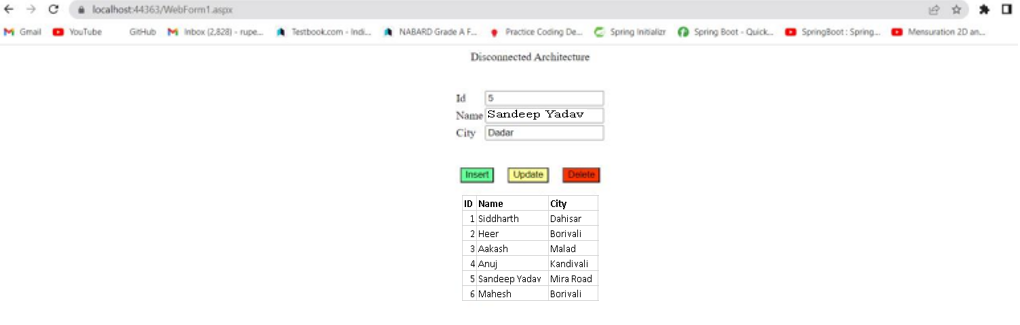
**Output:**



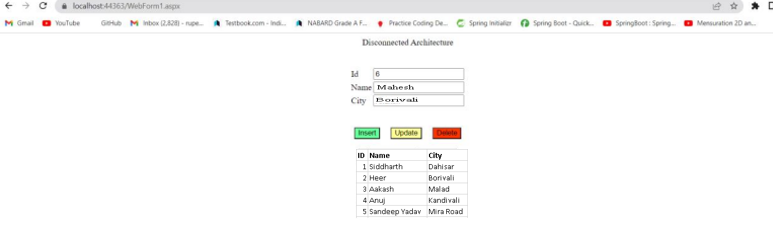
**Insert**



**Update**



**Delete**



**Aim:**

**D) Design a webpage to demonstrate use of stored procedure.**

**Source Code:**

**Step 1:**

**Creating Database**

 I am creating a table "userdet" which has four columns as "userid", "username", "city" and "age".  
  
create table userdet  
(  
UserId int primary key,  
UserName varchar(30),  
city varcahar(20),  
age int  
)

**Step 2:**

**Creating Stored Procedure**

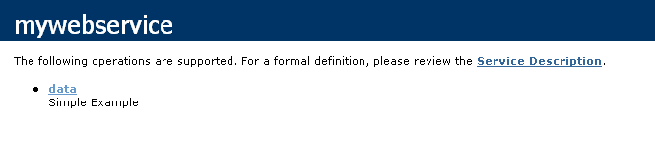
I am creating a stored procedure "myprocedure".  
  
ALTER PROCEDURE myprocedure  
(  
@puserid int,  
@pusername varchar(30),  
@pcity varchar(20),  
@page int  
)  
AS  
BEGIN  
insert into userdet values(@puserid,@pusername,@pcity,@page)  
END

**Step 3:**

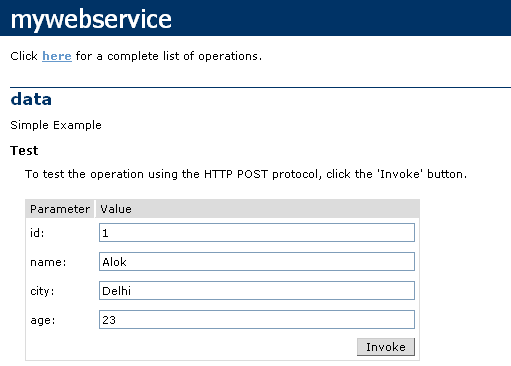
**Now create a web service application**

using System;  
using System.Collections.Generic;  
using System.Linq;  
using System.Web;  
using System.Web.Services;  
using System.Data.SqlClient;  
   
namespace usingparameterwebservice  
{  
    /// <summary>  
    /// Summary description for mywebservice  
    /// </summary>  
    [WebService(Namespace = "mystoredprocedure.org")]  
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1\_1)]  
    [System.ComponentModel.ToolboxItem(false)]  
    // To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the following line.  
    // [System.Web.Script.Services.ScriptService]  
    public class mywebservice : System.Web.Services.WebService  
    {  
        string constring = "Database=emp;server=.;user=sa;password=Password$2";  
        SqlConnection conn;  
        SqlCommand comm;  
         
        [WebMethod(Description="Simple Example")]  
        public string data(int id,string name,string city,int age)  
        {  
            conn = new SqlConnection(constring);  
            conn.Open();  
            
            comm = new SqlCommand();  
            comm.Connection=conn;  
            comm.CommandType = System.Data.CommandType.StoredProcedure;  
            comm.CommandText = "myprocedure";  
            comm.Parameters.AddWithValue("@puserid", id);  
            comm.Parameters.AddWithValue("@pusername", name);  
            comm.Parameters.AddWithValue("@pcity", city);  
            comm.Parameters.AddWithValue("@page", age);  
            try  
            {  
                comm.ExecuteNonQuery();  
                return "Record Saved";  
            }  
            catch (Exception)  
            {  
                return "Not Saved";  
            }  
            finally  
            {  
                conn.Close();  
            }  
        }  
    }  
}

**Output:**



**Click data to go on test page**



**Click invoke button if the data is correct then the data will be saved otherwise it will not be saved.**

**Practical 5**

**State Management Techniques**

**Aim:**

**A) Design Web Applications using Client Side Session Managements Techniques**

**Source Code:**

**CookiesPage1.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="CookiesPage1.aspx.cs" Inherits="Pract5A.CookiesPage1" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-

Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"

crossorigin="anonymous">

<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-

KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"

integrity="sha384-

ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"

integrity="sha384-

JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"

crossorigin="anonymous"></script>

</head>

<body>

<form id="form1" runat="server">

<div>

<center>

<div class="container">

<div class="card, card-body border border-warning rounded">

<h1>ASP.NET State Control Management</h1>

<h3>Cookies</h3>

<table class="w-100">

<tr>

<td>Username</td>

<td>

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td>Password</td>

<td>

<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td>

<asp:Button ID="Button1" runat="server" Text="Create Cookie"

OnClick="Button1\_Click" />

</td>

<td>

<asp:Button ID="Button2" runat="server" Text="Clear Cookie"

OnClick="Button2\_Click" />

</td>

</tr>

<tr>

<td colspan="2">

<asp:Button ID="Button3" runat="server" Text="Show Cookies"

OnClick="Button3\_Click" />

</td>

</tr>

</table>

<asp:Table ID="Table2" runat="server" Visible="false">

<asp:TableRow>

<asp:TableCell>Cookie Username :</asp:TableCell>

<asp:TableCell>

<asp:Label ID="Label1" runat="server"></asp:Label>

</asp:TableCell>

</asp:TableRow>

<asp:TableRow>

<asp:TableCell>Cookie Password :</asp:TableCell>

<asp:TableCell>

<asp:Label ID="Label2" runat="server"></asp:Label>

</asp:TableCell>

</asp:TableRow>

</asp:Table>

<asp:Label ID="Label3" runat="server"></asp:Label>

</div>

</div>

</center>

</div>

</form>

</body>

</html>

**CookiesPage1.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Pract5A

{

public partial class CookiesPage1 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

HttpCookie cookie = new HttpCookie("info");

cookie["username"] = TextBox1.Text.ToString();

cookie["password"] = TextBox2.Text.ToString();

Response.Cookies.Add(cookie);

}

protected void Button3\_Click(object sender, EventArgs e)

{

HttpCookie cookie = Request.Cookies["info"];

if (cookie != null)

{

Label1.Text = cookie["username"].ToString();

Label2.Text = cookie["password"].ToString();

Table2.Visible = true;

Label3.Text = "";

}

else

{

Label3.Text = "Cookies are empty";

}

}

protected void Button2\_Click(object sender, EventArgs e)

{

if (Request.Cookies["info"] != null)

{

Response.Cookies["info"].Expires = DateTime.Now.AddDays(-1);

Table2.Visible = false;

}

}

}

}

**HiddenPageField.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="HiddenPageField.aspx.cs" Inherits="Pract5A.HiddenPageField" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-

Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"

crossorigin="anonymous">

<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-

KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"

integrity="sha384-

ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"

integrity="sha384-

JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"

crossorigin="anonymous"></script>

</head>

<body>

<form id="form1" runat="server">

<div >

<center>

<div class="container" >

<div class="card, card-body border border-warning rounded">

<h1>ASP.NET State Control Management</h1>

<h3>Hidden Field</h3>

<ul>

<li>Hidden Field is a state control management provided by ASP.NET, Which is use

to store small amount of data on the client (Browser).</li>

<li>Hidden Field Control is not rendered to the browser and it is not visible on the

browser.</li>

</ul>

<asp:HiddenField ID="HiddenField1" runat="server" Value="5" />

<asp:Label ID="Label1" runat="server" Text="" Visible="false" class="font-italic

"></asp:Label>

<asp:Button ID="Button1" class="btn btn-primary btn-lg" runat="server" Text="Show

Hidden Field Value" OnClick="Button1\_Click" />

</div>

</div>

</center>

</div>

</form>

</body>

</html>

**QueryStringPage1.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="QueryStringPage1.aspx.cs" Inherits="Pract5A.QueryStringPage1" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-

Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"

crossorigin="anonymous">

<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-

KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"

integrity="sha384-

ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"

integrity="sha384-

JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"

crossorigin="anonymous"></script>

</head>

<body>

<form id="form1" runat="server">

<div>

<center>

<div class="container">

<div class="card, card-body border border-dark rounded">

<h1>ASP.NET State Control Management</h1>

<h3>Query String</h3>

<ul style="text-align: left">

<li>Query String is a collection of character input to a computer or a browser.

</li>

</ul>

<table class="w-100">

<tr>

<td style="text-align: right">Enter First Name : </td>

<td style="text-align: left">

<div class="form-group">

<asp:TextBox Class="form-control" ID="TextBox1"

runat="server"></asp:TextBox></div>

</td>

</tr>

<tr>

<td style="text-align: right">Enter Last Name : </td>

<td style="text-align: left">

<div class="form-group">

<asp:TextBox Class="form-control" ID="TextBox2"

runat="server"></asp:TextBox></div>

</td>

</tr>

<tr>

<td style="text-align: center" colspan="2">

<asp:Button ID="submit" runat="server" Text="Submit"

OnClick="submit\_Click" /></td>

</tr>

</table>

</div>

</div>

</center>

</div>

</form>

</body>

</html>

**HiddenPageField.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Pract5A

{

public partial class HiddenPageField : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

if (HiddenField1.Value != null)

{

int val = Int32.Parse(HiddenField1.Value.ToString());

val = val + 5;

Label1.Text = "The value of Hidden Field is incremented by 5 and its current value is < b > " + val + "</ b >";

}

}

protected void Button1\_Click(object sender, EventArgs e)

{

Label1.Visible = true;

}

}

}

**ViewStatePage.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="ViewStatePage.aspx.cs" Inherits="Pract5A.ViewStatePage" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-

KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"

integrity="sha384-

ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"

integrity="sha384-

JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"

crossorigin="anonymous"></script>

</head>

<body>

<form id="form1" runat="server">

<div>

<center>

<div class="container">

<div class="card, card-body border border-dark rounded">

<h1>ASP.NET State Control Management</h1>

<h3>View State</h3>

<ul style="text-align: left">

<li>View State is another client side state management control/technique, which is

used to store user's data</li>

<li>View State provide page level State Management.</li>

<li>View State can store any type of data.</li>

</ul>

<table class="w-100">

<tr>

<td style="text-align: right">Enter Your Name : </td>

<td style="text-align: left">

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td style="text-align: right">

<asp:Button ID="save" runat="server" Text="Save" OnClick="save\_Click"

class="btn btn-primary" />

</td>

<td style="text-align: left">

<asp:Button ID="display" runat="server" Text="Display"

OnClick="display\_Click" class="btn btn-danger" />

</td>

</tr>

<tr>

<td style="text-align: right">Data in View State : </td>

<td style="text-align: left">

<asp:Label ID="Label1" runat="server" Text=""></asp:Label></td>

</tr>

<tr>

<td style="text-align: right">Number of PostBack: </td>

<td style="text-align: left">

<asp:Label ID="Label2" runat="server" Text=""></asp:Label></td>

</tr>

</table>

</div>

</div>

</center>

</div>

</form>

</body>

</html>

**ViewStatePage.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Pract5A

{

public partial class ViewStatePage : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

if (IsPostBack)

{

if (ViewState["Counter"] != null)

{

int counter = Int32.Parse(ViewState["Counter"].ToString());

counter = counter + 1;

Label2.Text = counter.ToString();

ViewState["Counter"] = counter.ToString();

}

else

{

ViewState["Counter"] = "1";

}

}

}

private void save\_Click(object sender, EventArgs e)

{

ViewState["userName"] = TextBox1.Text;

TextBox1.Text = "";

Label2.Text = ViewState["Counter"].ToString();

}

private void display\_Click(object sender, EventArgs e)

{

Label1.Text = ViewState["userName"].ToString();

Label2.Text = ViewState["Counter"].ToString();

}

}

}

**Welcome.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Welcome.aspx.cs" Inherits="Pract5A.Welcome" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"

crossorigin="anonymous">

<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-

KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"

integrity="sha384-

ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"

integrity="sha384-

JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"

crossorigin="anonymous"></script>

</head>

<body>

<form id="form1" runat="server">

<div>

<center>

<div class="container">

<div class="card, card-body border border-dark rounded">

<h1>Welcome Page</h1>

<asp:Label ID="Label1" runat="server" Text=""></asp:Label>

</div>

</div>

</center>

</div>

</form>

</body>

</html>

**Welcome.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Pract5A

{

public partial class Welcome : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

string fname = Request.QueryString["fname"].ToString();

string lname = Request.QueryString["lname"].ToString();

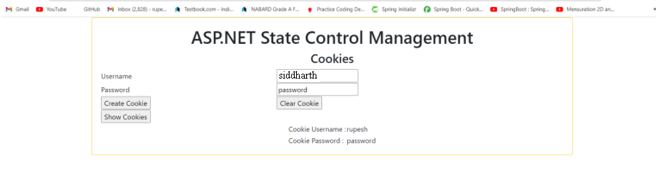
Label1.Text = "Welcome " + fname + " " + lname + " .";

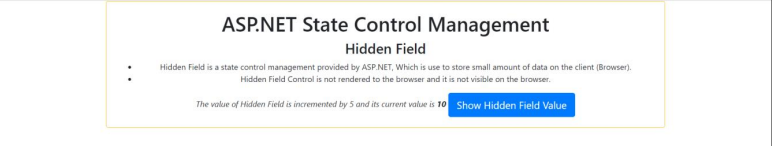
}

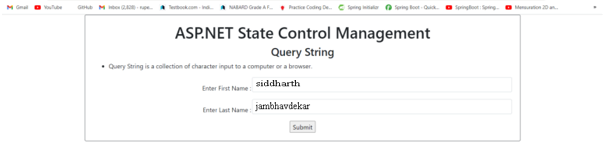
}

}

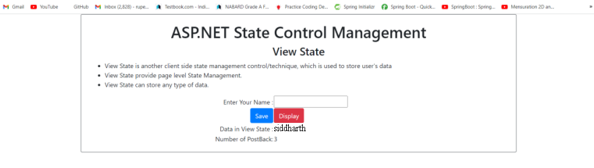
**Output:**











**Aim:**

**B) Design Web Applications using Server Side Session Management Techniques.**

**Source Code:**

**Home.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Home.aspx.cs" Inherits="Pract5B.Home" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

<form id="form1" runat="server">

<div>

<center>

<asp:Label ID="Label1" runat="server" Text="Enter your Name:"></asp:Label>

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br />

<asp:Button ID="Button1" runat="server" Text="Submit" OnClick="Button1\_Click" />

</center>

</div>

</form>

</body>

</html>

**Home.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Pract5B

{

public partial class Home : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

Session["User"] = TextBox1.Text;

}

protected void Button1\_Click(object sender, EventArgs e)

{

Response.Redirect("WebForm1.aspx");

}

}

}

**WebForm1.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="Pract5B.WebForm1" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

<form id="form1" runat="server">

<div><center>

<asp:Label ID="Label3" runat="server" Text=""></asp:Label><br />

<asp:Label ID="Label1" runat="server" Text="Visitors Count: "></asp:Label><asp:Label

ID="Label2" runat="server" Text=""></asp:Label>

</center>

</div>

</form>

</body>

</html>

**WebForm1.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Pract5B

{

public partial class WebForm1 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

Label3.Text = "Welcome, " + Session["User"].ToString() + " !";

Application["NoOfVisitors"] = (int)Application["NoOfVisitors"] + 1;

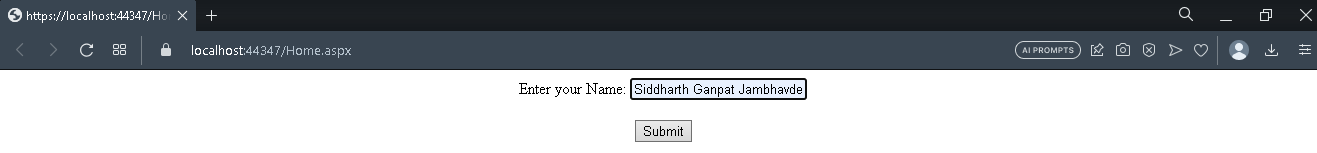
Label2.Text = Application["NoOfVisitors"].ToString();

}

}

}

**Output:**





**Practical 6**

**Web Services and WCF**

**Aim:**

A) Design Web Application to produce and Consume a web Service

**Source Code:**

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

Inherits="SimpleInterestWebService.WebForm1" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

<style type="text/css">

</style>

</head>

<body>

<form id="form1" runat="server">

<center>

<table class="auto-style1">

<tr>

<td>Enter value of Principal</td>

<td>

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td>Enter value of Years</td>

<td>

<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td>Enter value of ROI</td>

<td>

<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td colspan="2">

<asp:Button ID="Button1" runat="server" Text="Calculate Simple Interest"

OnClick="Button1\_Click" />

</td>

</tr>

<tr>

<td colspan="2">&nbsp;</td>

</tr>

</table>

<div>

<asp:Label ID="Label1" runat="server" Text=""></asp:Label>

</div>

</center>

</form>

</body>

</html>

**WebForm1.cs:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace SimpleInterestWebService

{

public partial class WebForm1 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

localhost.WebServiceSI s=new localhost.WebServiceSI();

double p=Convert.ToDouble(TextBox1.Text);

double n = Convert.ToDouble(TextBox2.Text);

double r = Convert.ToDouble(TextBox3.Text);

double result=s.SI(p, n, r);

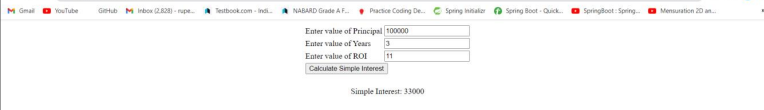
Label1.Text = "Simple Interest: "+result.ToString();

}

}

}

**Output:**



**Aim:**

B) Design Web Application to produce and Consume a WCF Service.

**Source Code:**

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"

Inherits="\_Default" %>

<!DOCTYPE html>

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

<head runat="server">

<title></title>

</head>

<body>

<form id="form1" runat="server">

<div>

Enter principle:

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>

<br />

Enter number of years:

<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>

<br />

Enter rate of intrest:

<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>

<br />

<asp:Button ID="Button1" runat="server" OnClick="Button1\_Click" Text="Calculate" />

<br />

<asp:Label ID="Label1" runat="server"></asp:Label>

</div>

</form>

</body>

</html>

Default.cs:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class \_Default : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

ServiceReference1.ServiceClient srv = new ServiceReference1.ServiceClient();

double p = Convert.ToDouble(TextBox1.Text);

double n = Convert.ToDouble(TextBox2.Text);

double r = Convert.ToDouble(TextBox3.Text);

double ans = srv.simpleIntrest(p, n, r);

Label1.Text = ans.ToString();

}

}

**IService.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Runtime.Serialization;

using System.ServiceModel;

using System.ServiceModel.Web;

using System.Text;

// NOTE: You can use the "Rename" command on the "Refactor" menu to change the interface

name "IService" in both code and config file together.

[ServiceContract]

public interface IService

{

[OperationContract]

string GetData(int value);

[OperationContract]

double simpleIntrest(double p, double n, double r);

[OperationContract]

CompositeType GetDataUsingDataContract(CompositeType composite);

// TODO: Add your service operations here

}

// Use a data contract as illustrated in the sample below to add composite types to service

operations.

[DataContract]

public class CompositeType

{

bool boolValue = true;

string stringValue = "Hello ";

[DataMember]

public bool BoolValue

{

get { return boolValue; }

set { boolValue = value; }

}

[DataMember]

public string StringValue

{

get { return stringValue; }

set { stringValue = value; }

}

}

**Service.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Runtime.Serialization;

using System.ServiceModel;

using System.ServiceModel.Web;

using System.Text;

// NOTE: You can use the "Rename" command on the "Refactor" menu to change the class name

"Service" in code, svc and config file together.

public class Service : IService

{

public string GetData(int value)

{

return string.Format("You entered: {0}", value);

}

public CompositeType GetDataUsingDataContract(CompositeType composite)

{

if (composite == null)

{

throw new ArgumentNullException("composite");

}

if (composite.BoolValue)

{

composite.StringValue += "Suffix";

}

return composite;

}

public double simpleIntrest(double p, double n, double r)

{

return ((p \* n \* r) / 100);

}

}

**Output:**



**Practical 7**

**ASP.NET MVC**

**Aim:**

A) Design MVC based Web applications.

**Source Code:**

@{

ViewBag.Title = "Home Page";

}

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>BOOK CAR!!!!</title>

<link rel="stylesheet" href="./Book-Car-2.css">

<link href="https://fonts.googleapis.com/css?family=Montserrat:400,700" rel="stylesheet">

</head>

<body>

<div id="booking" class="section">

<div class="section-center">

<div class="container">

<div class="row">

<div class="booking-form">

<div class="form-header">

<h1>Book Your Car</h1>

</div>

<div class="vehicle-details">

<div class="vehicle-features">

<span class="heading-features">Vehicle Features</span>

</div>

</div>

<form>

<div class="row">

<div class="col-sm-6">

<div class="form-group">

<span class="form-label">Name</span>

<input class="form-control" type="text" placeholder="Enter your name">

</div>

</div>

<div class="col-sm-6">

<div class="form-group">

<span class="form-label">Email</span>

<input class="form-control" type="email" placeholder="Enter your email">

</div>

</div>

</div>

<div class="form-group">

<span class="form-label">Phone</span>

<input class="form-control" type="tel" placeholder="Enter your phone number">

</div>

<div class="form-group">

<span class="form-label">Pickup Location</span>

<input class="form-control" type="text" placeholder="Enter ZIP/Location">

</div>

<div class="form-group">

<span class="form-label">Destination</span>

<input class="form-control" type="text" placeholder="Enter ZIP/Location">

</div>

<div class="row">

<div class="col-sm-5">

<div class="form-group">

<span class="form-label">Pickup Date</span>

<input class="form-control" type="date" required>

</div>

</div>

<div class="col-sm-7">

<div class="row">

<div class="col-sm-4">

<div class="form-group">

<span class="form-label">Hour</span>

<select class="form-control">

<option>1</option>

<option>2</option>

<option>3</option>

<option>4</option>

<option>5</option>

<option>6</option>

<option>7</option>

<option>8</option>

<option>9</option>

<option>10</option>

<option>11</option>

<option>12</option>

</select>

<span class="select-arrow"></span>

</div>

</div>

<div class="col-sm-4">

<div class="form-group">

<span class="form-label">Min</span>

<select class="form-control">

<option>05</option>

<option>10</option>

<option>15</option>

<option>20</option>

<option>25</option>

<option>30</option>

<option>35</option>

<option>40</option>

<option>45</option>

<option>50</option>

<option>55</option>

</select>

<span class="select-arrow"></span>

</div>

</div>

<div class="col-sm-4">

<div class="form-group">

<span class="form-label">AM/PM</span>

<select class="form-control">

<option>AM</option>

<option>PM</option>

</select>

<span class="select-arrow"></span>

</div>

</div>

</div>

</div>

</div>

<div class="form-btn">

<button class="submit-btn">Book Now</button>

</div>

</form>

</div>

</div>

</div>

</div>

</div>

</body>

</html>

**Error.cshtml**

<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width" />

<title>Error</title>

</head>

<body>

<hgroup>

<h1>Error.</h1>

<h2>An error occurred while processing your request.</h2>

</hgroup>

</body>

</html>

**Layout.cshtml**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>@ViewBag.Title - Vehicle Purchase Management</title>

@Styles.Render("~/Content/css")

@Scripts.Render("~/bundles/modernizr")

</head>

<body>

<div class="navbar navbar-inverse navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse">

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

@Html.ActionLink("Vehicle Purchase Management", "Index", "Home", new { area = "" }, new { @class = "navbar-brand" })

</div>

<div class="navbar-collapse collapse">

<ul class="nav navbar-nav">

<li>@Html.ActionLink("Home", "Index", "Home")</li>

<li>@Html.ActionLink("About", "About", "Home")</li>

<li>@Html.ActionLink("Contact", "Contact", "Home")</li>

<li>@Html.ActionLink("Form","Form","Home") </li>

</ul>

</div>

</div>

</div>

<div class="container body-content">

@RenderBody()

<hr />

<footer>

<p>© 2023- Vehicle Purchase Management System</p>

</footer>

</div>

@Scripts.Render("~/bundles/jquery")

@Scripts.Render("~/bundles/bootstrap")

@RenderSection("scripts", required: false)

</body>

</html>

**Viewstart.cshtml**

@{

Layout = "~/Views/Shared/\_Layout.cshtml";

}

**About.cshtml**

@{

ViewBag.Title = "About";

}

<h2>@ViewBag.Title.</h2>

<h3>@ViewBag.Message</h3>

<div class="parallax\_loader " id="home">

<div class="container-fluid bg-overlay">

<div class="row name\_comp">

<div class="col-md-2 "></div>

<div class="col-md-8"><h1 class="display-1 g-font-weight--500 g-color--primary"><b>Car Renters</b></h1></div>

<div class="col-md-2"></div>

</div>

<div class="row name\_comp">

<div class="col-xs-12">

<h3 class="display-4 g-color--white">World's most famous car rental company with over 1 MILLION+ trusted users.</h3>

</div>

</div>

</div>

</div>

<!-- END OF PARALLAX LOADER-->

<!-- ABOUT CAR RENTERS-->

<div class="g-row-col--xs-10 about\_sec" id="about">

<div>

<h1 class="display-3 g-color--primary g-font-weight--300 para\_content"><b>ABOUT US</b></h1>

</div>

<div class="g-color--dark-light g-font-family--Alegreya" style="font-size: 1.2em;">

<p>

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod

tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,

quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse

cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non

proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

</p>

<p>

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod

tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,

quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo

consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse

cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non

proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

</p>

</div>

</div>

**Form.cshtml**

@{

ViewBag.Title = "Form";

}

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<title>CONTACT US</title>

<link rel="stylesheet" href="./main.css">

<link rel="stylesheet" type="text/css" href="./fonts/font-awesome-4.7.0/css/font-awesome.min.css">

<link rel="stylesheet" type="text/css" href="../css/global.css">

</head>

<body>

<!-- END OF STICKY HEADER -->

<div class="container">

<div class="wrap-contact">

<form class="contact-form" action="../index.html" method="POST">

<span class="contact-form-title">

Contact Us

</span>

<label class="label-input" for="first-name">Your Name \*</label>

<div class="wrap-input rs1">

<input id="first-name" class="input100" type="text" name="first-name" placeholder="First name" required>

<span class="focus-input"></span>

</div>

<div class="wrap-input rs1">

<input class="input100" type="text" name="last-name" placeholder="Last name" required>

<span class="focus-input"></span>

</div>

<label class="label-input" for="email">Email Address \*</label>

<div class="wrap-input">

<input id="email" class="input100" type="email" name="email" placeholder="Eg. example@email.com" required>

<span class="focus-input"></span>

</div>

<label class="label-input" for="phone">Phone Number</label>

<div class="wrap-input">

<input id="phone" class="input100" type="tel" name="phone" placeholder="Eg. +1 800 000000" required>

<span class="focus-input"></span>

</div>

<label class="label-input" for="message">Message \*</label>

<div class="wrap-input">

<textarea id="message" class="input100" name="message" placeholder="Please enter your comments..." required></textarea>

<span class="focus-input"></span>

</div>

<div class="container-contact-form-btn">

<button class="contact-form-btn" onclick="contactButton()">

<span>

Submit

</span>

</button>

</div>

</form>

</div>

</div>

<!-- FOOTER-->

<footer class="g-bg-color--dark-light g-color--white-opacity">

<div class="foot">

<div class="padd\_\_needed">

<img id="logo" src="../img/logo-3.png">

</div>

<div class="connectivity padd\_\_needed">

<div class="connect">

<i class="fab fa-facebook-square"></i>

<a class="a-footer" href="#">FACEBOOK</a>

</div>

<div class="connect">

<i class="fab fa-linkedin"></i>

<a class="a-footer" href="#">LINKED IN</a>

</div>

<div class="connect">

<i class="fab fa-twitter-square"></i>

<a class="a-footer" href="#">TWITTER</a>

</div>

<div class="connect">

<i class="fab fa-instagram"></i>

<a class="a-footer" href="#">INSTAGRAM</a>

</div>

</div>

<div class="padd\_\_needed">

<h6 class="g-color--primary">&copy CAR RENTERS</h6>

</div>

</div>

</footer>

<!--END OF FOOTER-->

<script type="text/javascript" src="../js/index.js"></script>

</body>

</html>

**Contact.cshtml**

@{

ViewBag.Title = "Contact";

}

<h2>@ViewBag.Title.</h2>

<h3>@ViewBag.Message</h3>

<address>

One Microsoft Way<br />

Redmond, WA 98052-6399<br />

<abbr title="Phone">P:</abbr>

425.555.0100

</address>

<address>

<strong>Support:</strong> <a href="mailto:Support@example.com">Support@example.com</a><br />

<strong>Marketing:</strong> <a href="mailto:Marketing@example.com">Marketing@example.com</a>

</address>

**HomeController.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.Mvc;

namespace MVC.Controllers

{

public class HomeController : Controller

{

public ActionResult Index()

{

return View();

}

public ActionResult About()

{

ViewBag.Message = "";

return View();

}

public ActionResult Contact()

{

ViewBag.Message = "Your contact page.";

return View();

}

public ActionResult Form()

{

ViewBag.Message = "Registration form to Contact us.";

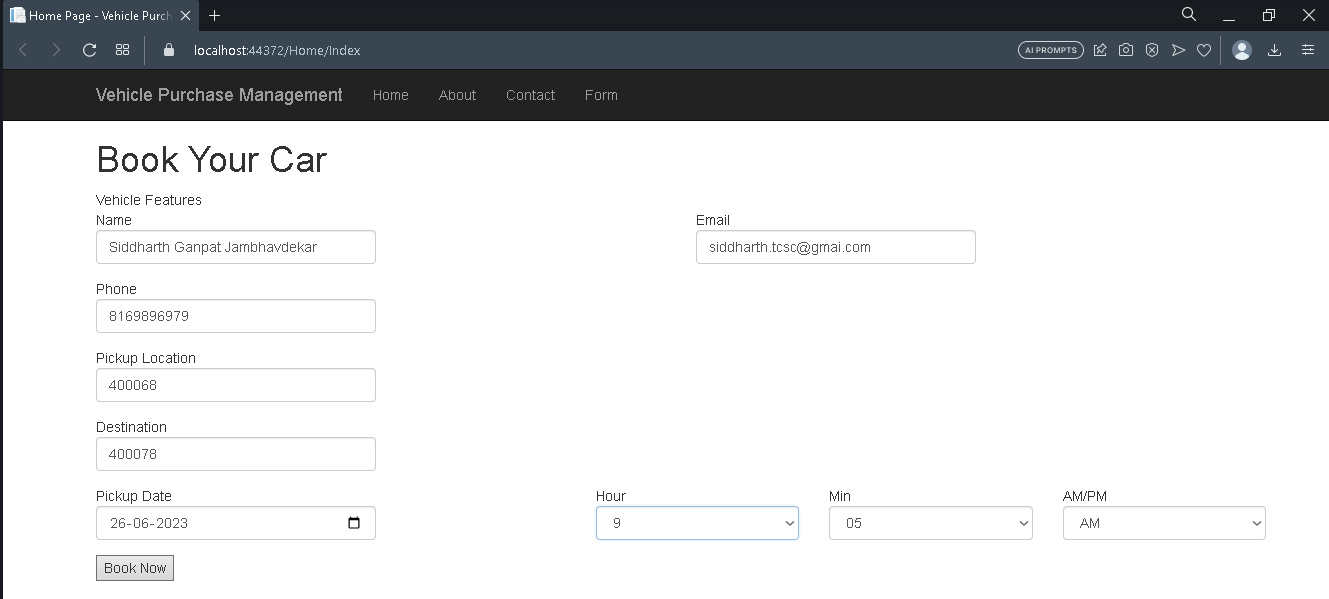
return View();

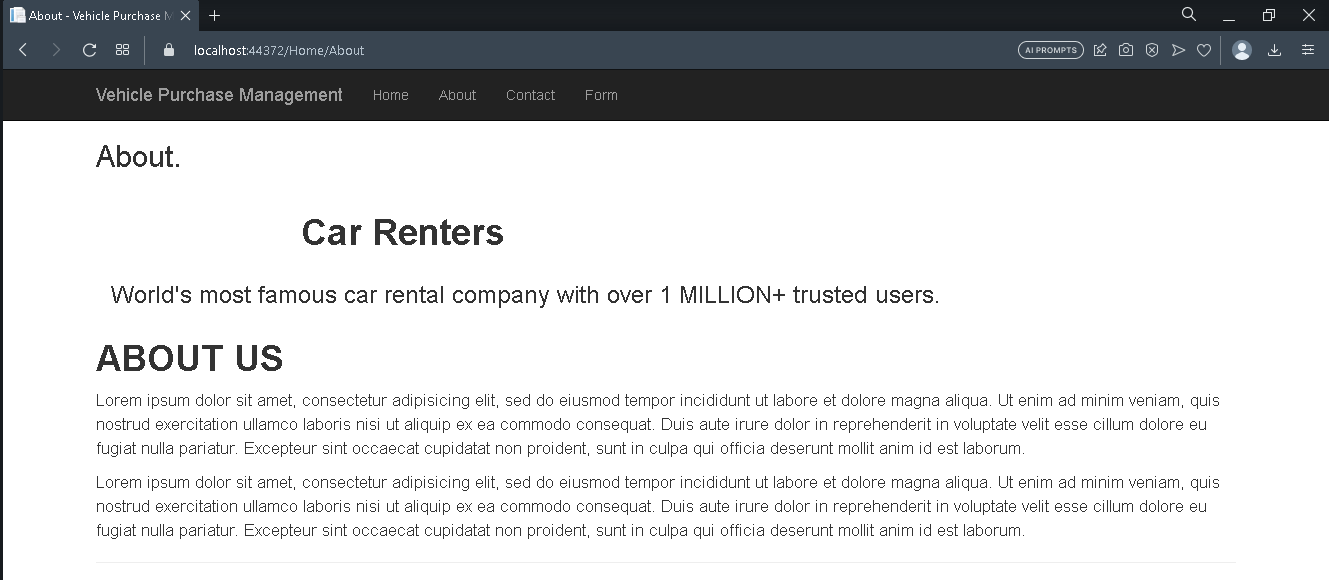
}

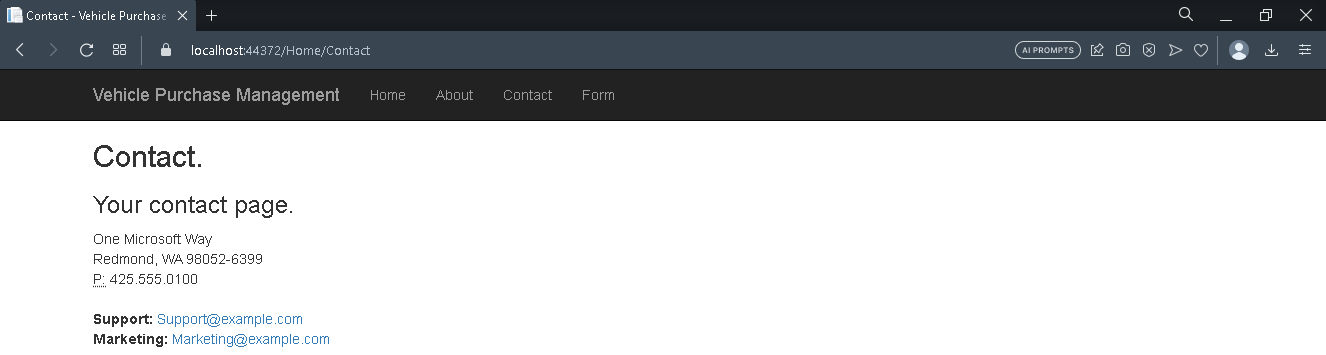
}

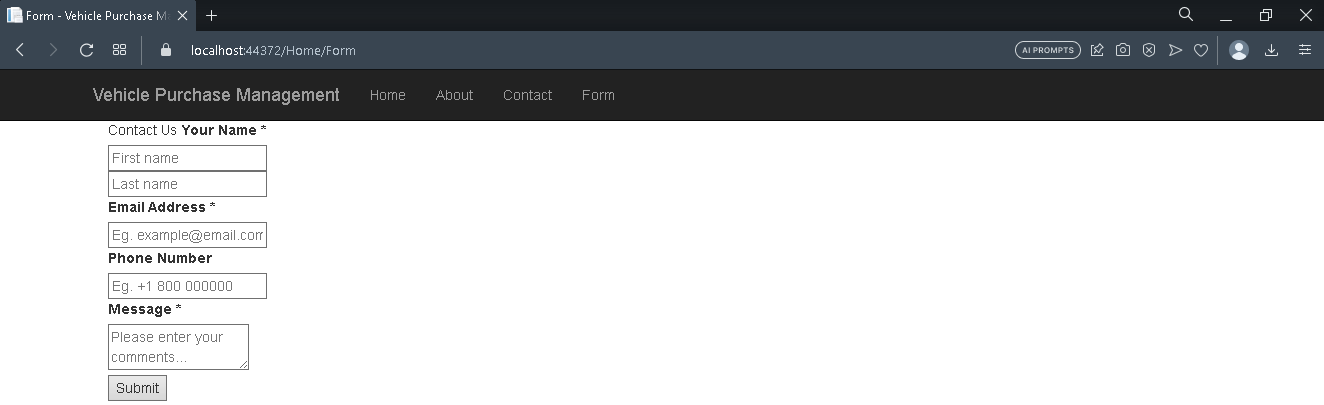
}

**Output:**









**Practical 8**

**LINQ**

**Aim:**

A) Design a webpage to display the use of LINQ.

**Source Code:**

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

Inherits="linq.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=""></asp:Label>

</div>

</form>

</body>

</html>

**WebForm1.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace linq

{

public partial class WebForm1 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

List<Class1> books = Class1.GetBooks();

var booktitles = from b in books select b.title;

foreach(var title in booktitles)

{

Label1.Text += String.Format("{0}<br/>", title);

}

}

}

}

**Class1.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

namespace linq

{

public class Class1

{

public string id { get; set; }

public string title { get; set; }

public decimal price { get; set; }

public DateTime dateOfRelease { get; set; }

public static List<Class1> GetBooks()

{

List<Class1> list = new List<Class1>();

list.Add(new Class1

{

id = "001",

title = "Programming in C#",

price = 600.14m,

dateOfRelease=Convert.ToDateTime("2018-05-07")

});

list.Add(new Class1

{

id = "002",

title = "Let us C",

price = 340.00m,

dateOfRelease = Convert.ToDateTime("2010-01-20")

});

list.Add(new Class1

{

id = "003",

title = "Machine Learning",

price = 1200m,

dateOfRelease = Convert.ToDateTime("2018-12-14")

});

list.Add(new Class1

{

id = "004",

title = "Operations Research",

price = 475m,

dateOfRelease = Convert.ToDateTime("2013-05-30")

});

return list;

}

}

}

**Output:**

