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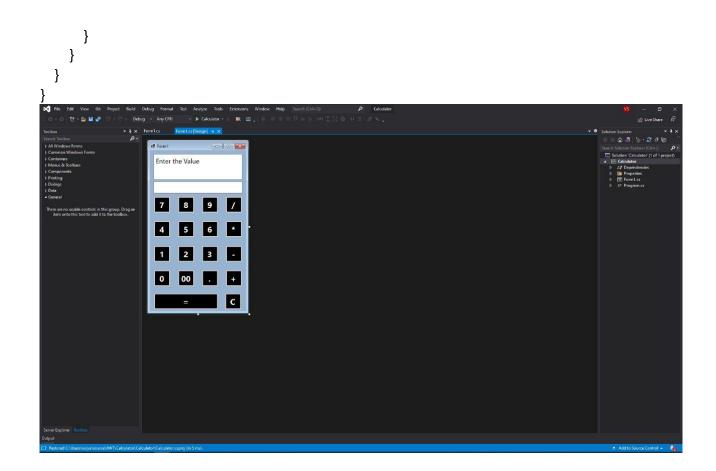
I] Windows Form Application

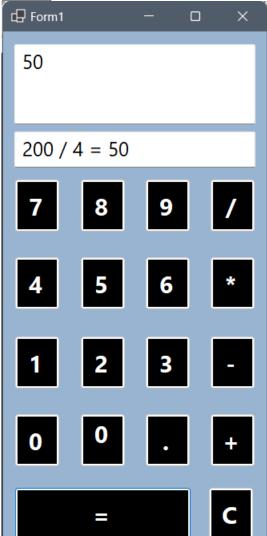
A. Design a calculator UI based applications using basic Windows forms Controls.

```
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
  public partial class Form1 : Form
    public Form1()
      InitializeComponent();
    float num1, ans;
    int count;
    private void key1_Click(object sender, EventArgs e)
      label1.Text = null;
      textBox1.Text = textBox1.Text + 1;
    private void key2_Click(object sender, EventArgs e)
      label1.Text = null;
      textBox1.Text = textBox1.Text + 2;
    private void key3_Click(object sender, EventArgs e)
      label1.Text = null;
      textBox1.Text = textBox1.Text + 3;
    private void key4_Click(object sender, EventArgs e)
      label1.Text = null;
      textBox1.Text = textBox1.Text + 4;
    private void key5 Click(object sender, EventArgs e)
      label1.Text = null;
      textBox1.Text = textBox1.Text + 5;
```

```
private void key6_Click(object sender, EventArgs e)
  label1.Text = null;
  textBox1.Text = textBox1.Text + 6;
private void key7 Click(object sender, EventArgs e)
  label1.Text = null;
  textBox1.Text = textBox1.Text + 7;
private void key8 Click(object sender, EventArgs e)
  label1.Text = null;
  textBox1.Text = textBox1.Text + 8;
private void key9_Click(object sender, EventArgs e)
  label1.Text = null;
  textBox1.Text = textBox1.Text + 9;
private void key00_Click(object sender, EventArgs e)
  label1.Text = null;
  textBox1.Text = textBox1.Text + 0+0;
private void key0_Click(object sender, EventArgs e)
  label1.Text = null;
  textBox1.Text = textBox1.Text + 0;
private void keyDot_Click(object sender, EventArgs e)
  label1.Text = null;
  textBox1.Text = textBox1.Text + ".";
private void keyDivide_Click(object sender, EventArgs e)
  num1 = float.Parse(textBox1.Text);
  textBox2.Text = num1 + " / ";
  textBox1.Clear();
  textBox1.Focus();
  count = 4;
private void keyMul Click(object sender, EventArgs e)
  num1 = float.Parse(textBox1.Text);
  textBox2.Text = num1 + " * ";
  textBox1.Clear();
  textBox1.Focus();
  count = 3;
private void keySub Click(object sender, EventArgs e)
```

```
num1 = float.Parse(textBox1.Text);
  textBox2.Text = num1 + " - ";
  textBox1.Clear();
  textBox1.Focus();
  count = 2;
}
private void keyAdd Click(object sender, EventArgs e)
  num1 = float.Parse(textBox1.Text);
  textBox2.Text = num1 + " + ";
  textBox1.Clear();
  textBox1.Focus();
  count = 1;
private void keyClear_Click(object sender, EventArgs e)
  label1.Text = "Enter your input";
  textBox1.Text = null;
  textBox2.Text = null;
private void keyEqual_Click(object sender, EventArgs e)
  compute(count);
public void compute(int count)
  switch (count)
    case 1:
      ans = num1 + float.Parse(textBox1.Text);
      textBox2.Text = textBox2.Text + textBox1.Text + " = " + ans;
      textBox1.Text = ans.ToString();
      break;
    case 2:
      ans = num1 - float.Parse(textBox1.Text);
      textBox2.Text = textBox2.Text + textBox1.Text + " = " + ans;
      textBox1.Text = ans.ToString();
      break;
    case 3:
      ans = num1 * float.Parse(textBox1.Text);
      textBox2.Text = textBox2.Text + textBox1.Text + " = " + ans;
      textBox1.Text = ans.ToString();
      break:
    case 4:
      ans = num1 / float.Parse(textBox1.Text);
      textBox2.Text = textBox2.Text + textBox1.Text + " = " + ans;
      textBox1.Text = ans.ToString();
      break;
    default:
      break;
```





II] C# Console

A. Design Applications using Classes and Objects

```
Source code:
using System;
namespace ClassandObject
  public class Student
    // Instance Variables
    String name;
    int rollNo;
    int std;
    String div;
    // Constructor Declaration of Class
    public Student(String name, int rollNo,
            int std, String div)
    {
      this.name = name;
      this.rollNo = rollNo;
      this.std = std;
      this.div = div;
    }
    // Property 1
    public String GetName()
      return name;
    // Property 2
    public int GetRollNo()
      return rollNo;
    // Property 3
    public int GetStd()
      return std;
    // Property 4
    public String GetDiv()
      return div;
```

```
Mirrosoft Visual Studio Debug Console

Hi my name is Rupesh.

My Roll no is 22095,
I am in Standard 5,And I am in B Division.

C:\Users\Rupesh\source\repos\AWT\ClassandObject\ClassandObject\bin\Debug\netcoreapp3.1\ClassandObject.exe (process 1424) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .
```

B. Design Applications using Inheritance and Abstract Classes

```
Source code:
AbstractClass.cs:
using System;
using System.Collections.Generic;
using System.Text;
namespace Q 3 Inheritance
  public abstract class AbstractClass
    public abstract string occupation(string occuapation);
    public string location(string loc)
      return loc;
  }
ChildClass.cs:
using System;
using System.Collections.Generic;
using System.Text;
namespace Q_3_Inheritance
{
  class ChildClass: AbstractClass,Interface1
    public string name(string name)
      Console.WriteLine("My name is " + name);
      return name;
    public int info(int age, int height)
      Console.WriteLine("I am " + age + " year old .");
      Console.WriteLine("My height is " + height + " cm .");
      return 1;
    public override string occupation(string occuapation)
      return occuapation;
    }
  }
  class main
    public static void Main(string[] args)
```

```
{
      Interface1 i;
      i = new ChildClass();
      i.name("Rupesh .");
      i.info(21, 168);
      AbstractClass cc = new ChildClass();
      Console.WriteLine(cc.occupation("I am student."));
      Console.WriteLine(cc.location("At dadar"));
      Console.ReadKey();
    }
ChildClass.cs
using System;
using System.Collections.Generic;
using System.Text;
namespace Q_3_Inheritance
  class ChildClass: AbstractClass,Interface1
    public string name(string name)
      Console.WriteLine("My name is " + name);
      return name;
    public int info(int age, int height)
      Console.WriteLine("I am " + age + " year old .");
      Console.WriteLine("My height is " + height + " cm .");
      return 1;
    }
    public override string occupation(string occuapation)
      return occuapation;
    }
  }
  class main
    public static void Main(string[] args)
      Interface1 i;
      i = new ChildClass();
```

```
i.name("Rupesh .");
      i.info(21, 168);
      AbstractClass cc = new ChildClass();
      Console.WriteLine(cc.occupation("I am student."));
      Console.WriteLine(cc.location("At dadar"));
      Console.ReadKey();
    }
  }
Interface1.cs
using System;
using System.Collections.Generic;
using System.Text;
namespace Q_3_Inheritance
  interface Interface1
    string name(string name);
    int info(int age, int height);
  }
}
```

```
My name is Rupesh .

I am 21 year old .

My height is 168 cm .

I am student.

At dadar

C:\Users\Rupesh\source\repos\AWT\InheritanceandAbstract\InheritanceandAbstract\bin\Debug\netcoreapp3.1\InheritanceandAbstract.exe (process 3500) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .
```

III] ASP.NET

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

Source code:

```
RegistrationPage.aspx:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="RegistrationPage.aspx.cs"</p>
Inherits="RegistrationValidation.RegistrationPage" %>
<!DOCTYPE html>
<a href="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="Username"></asp:Label>
           <asp:TextBox ID="username" runat="server"></asp:TextBox>
           <asp:RequiredFieldValidator ID="RequiredFieldValidator1"
ControlToValidate="username" runat="server" ErrorMessage="Enter
username"></asp:RequiredFieldValidator>
         <asp:Label ID="Label2" runat="server" Text="Password"></asp:Label>
           <asp:TextBox ID="password" TextMode="Password"
runat="server"></asp:TextBox>
         <asp:RequiredFieldValidator ID="RequiredFieldValidator2"
ControlToValidate="password" runat="server" ErrorMessage="Enter
password"></asp:RequiredFieldValidator>
         <asp:Label ID="Label3" runat="server" Text="Confirm Password"></asp:Label>
           <asp:TextBox ID="confirm" TextMode="Password"
runat="server"></asp:TextBox>
```

```
<asp:RequiredFieldValidator ID="RequiredFieldValidator3"
ControlToValidate="confirm" runat="server"
ErrorMessage="*required"></asp:RequiredFieldValidator><asp:CompareValidator
ID="CompareValidator1" runat="server" ControlToValidate="confirm"
ControlToCompare="password" ErrorMessage="Please enter correct
password"></asp:CompareValidator>
         <asp:Label ID="Label4" runat="server" Text="Email"></asp:Label>
           <asp:TextBox ID="email" TextMode="Email" runat="server"></asp:TextBox>
         <asp:RequiredFieldValidator ID="RequiredFieldValidator4"
ControlToValidate="email" runat="server"
ErrorMessage="*required"></asp:RequiredFieldValidator>
         <asp:Label ID="Label5" runat="server" Text="Gender"></asp:Label>
         <asp:RadioButton ID="RadioButton1" GroupName="gender" Text="Male"
runat="server" Checked="True" /><asp:RadioButton ID="RadioButton2" GroupName="gender"
Checked="false" Text="Female" runat="server" />
       <asp:Label ID="Label6" runat="server" Text="Courses"></asp:Label>
         <asp:CheckBox ID="CheckBox1" runat="server" Text="C++" />
           <asp:CheckBox ID="CheckBox2" runat="server" Text="Java"/>
           <asp:CheckBox ID="CheckBox3" runat="server" Text="Python"/>
       <asp:Button ID="Button1" runat="server" Text="Register"
OnClick="Button1 Click"/>
         <asp:Label ID="message" runat="server" ></asp:Label>
     <asp:Label ID="ShowUsernameLabel" runat="server" ></asp:Label>
           <asp:Label ID="ShowUsername" runat="server"></asp:Label>
```

```
<asp:Label ID="ShowEmailLabel" runat="server" ></asp:Label>
           <asp:Label ID="ShowEmail" runat="server" ></asp:Label>
       <asp:Label ID="ShowGenderLabel" runat="server" ></asp:Label>
         <asp:Label ID="ShowGender" runat="server" ></asp:Label>
       <asp:Label ID="ShowCourseLabel" runat="server" ></asp:Label>
           <asp:Label ID="ShowCourse" runat="server" ></asp:Label>
       </div>
 </form>
</body>
</html>
RegistrationPage.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace RegistrationValidation
 public partial class RegistrationPage: System.Web.UI.Page
 {
   protected System.Web.UI.HtmlControls.HtmlInputFile File1;
   protected System.Web.UI.HtmlControls.HtmlInputButton Submit1;
   protected void Page Load(object sender, EventArgs e)
   {
   protected void Button1 Click(object sender, EventArgs e)
   {
```

```
message.Text = "Hello" + username.Text + "!";
      message.Text = message.Text +
" <br/> You have successfuly Registered with the following details.";
      ShowUsername.Text = username.Text;
      ShowEmail.Text = email.Text;
      if (RadioButton1.Checked)
      {
        ShowGender.Text = RadioButton1.Text;
      }
      else ShowGender.Text = RadioButton2.Text;
      var courses = "";
      if (CheckBox1.Checked)
      {
        courses = CheckBox1.Text + " ";
      }
      if (CheckBox2.Checked)
      {
        courses += CheckBox2.Text + " ";
      }
      if (CheckBox3.Checked)
      {
        courses += CheckBox3.Text;
      }
      ShowCourse.Text = courses;
      ShowUsernameLabel.Text = "User Name";
      ShowEmailLabel.Text = "Email ID";
      ShowGenderLabel.Text = "Gender";
```

```
ShowCourseLabel.Text = "Courses";

username.Text = "";

email.Text = "";

RadioButton1.Checked = false;

RadioButton2.Checked = false;

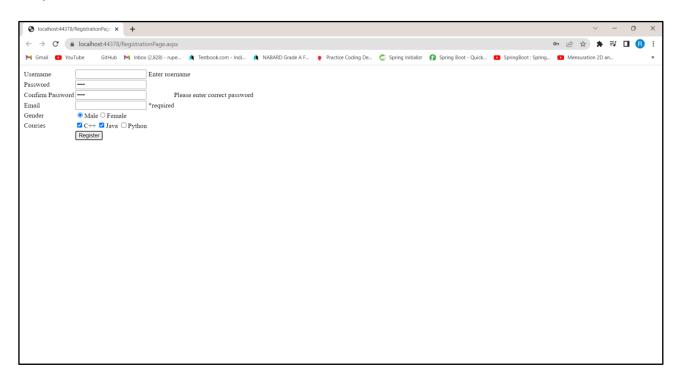
CheckBox1.Checked = false;

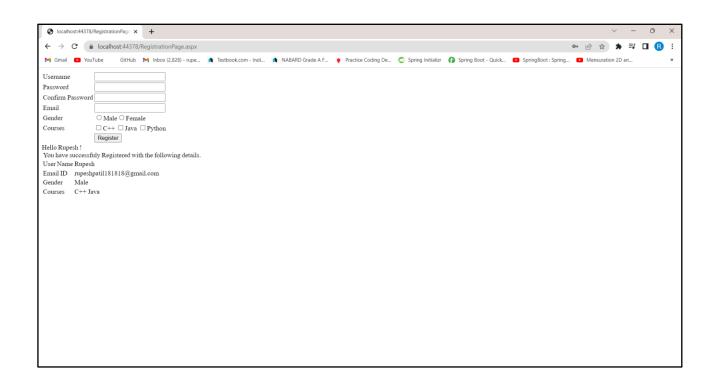
CheckBox2.Checked = false;

CheckBox3.Checked = false;

}

}
```





B. Create website using master page and theme concept.

Source code:

```
Site1.Master:
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"</p>
Inherits="PracMaster.Site1" %>
<!DOCTYPE html>
<html>
<head runat="server">
  <title></title>
  <asp:ContentPlaceHolder ID="head" runat="server">
  </asp:ContentPlaceHolder>
  <link rel="stylesheet"</pre>
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">
  cli class="nav-item">
   <a class="nav-link" href="WebForm1.aspx">Home</a>
  cli class="nav-item">
   <a class="nav-link" href="Sport.aspx">Sports</a>
  cli class="nav-item">
   <a class="nav-link" href="Entertainment.aspx">Entertainment</a>
  cli class="nav-item">
   <a class="nav-link disabled " href="#">Politics</a>
  </nav>
      <asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
      </asp:ContentPlaceHolder>
    </div>
  </form>
</body>
</html>
```

WebForm1.aspx:

Entertainment.aspx:

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:

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.

2. Kapda tere baap ka... toh jalegi bhi tere baap ki, has been modified to, Kapda teri Lanka
ka... toh jalegi bhi teri Lanka.

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.

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.

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.

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 left-hand-heavy batting firm.

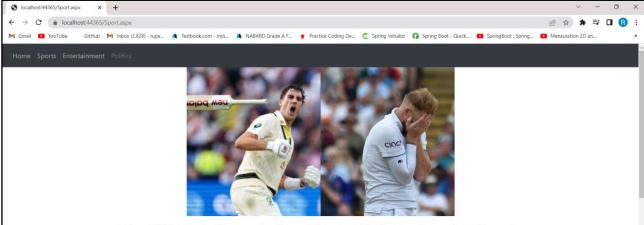
Endgame

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 speed-gun 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.

</center>
</asp:Content>





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

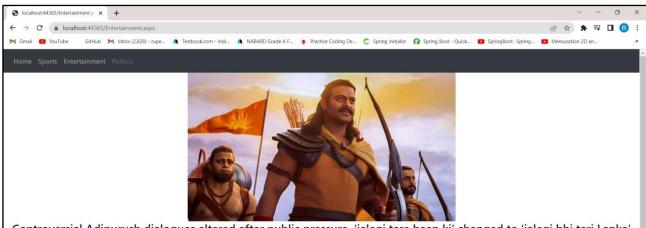
The ball was veering onto his body. Pat Cummins shuffled across and paused and opened the face of his bat to guide it to square third man. The ball was trickling to the fence, the outfield made heavy by the rain. Zak

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.

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.

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



Controversial Adipurush dialogues altered after public pressure, 'jalegi tere baap ki' changed to 'jalegi bhi teri Lanka'

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 Adipund a Usertificate, approved of the changes on June 19, according to a report on Filminformation.com which had previously given Adipund 12. The film was released on June 16. Here's a list of the original lines, and the new versions:

- 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.
- 2. Kapda tere baap ka... toh jalegi bhi tere baap ki, has been modified to, Kapda teri Lanka ka... toh jalegi bhi teri Lanka.
- 3. Jo hamari behno... unki Lanka laga denge, has been replaced by, Jo hamari behno... unki Lanka mein aag laga denge.
- 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.

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 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

IV] ADO.NET

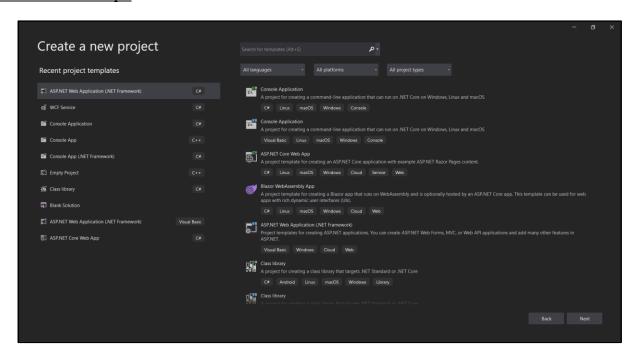
A. Create a webpage that demonstrates the use of data bound controls of ASP.NET

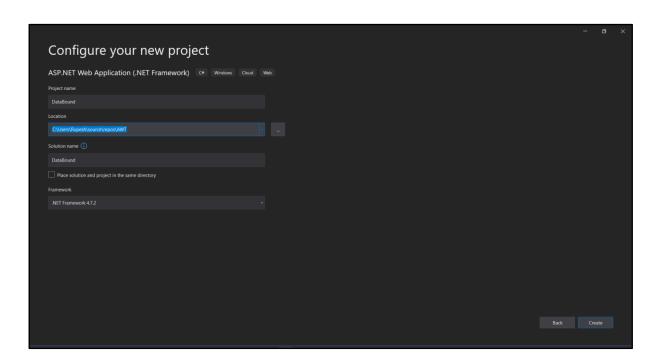
```
Source code:
WebForm1.aspx:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="DataBound.WebForm1" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <asp:GridView ID="GridView1" runat="server" AllowPaging="True"
AutoGenerateColumns="False" BackColor="#DEBA84" BorderColor="#DEBA84"
BorderStyle="None" BorderWidth="1px" CellPadding="3" CellSpacing="2" DataKeyNames="Id"
DataSourceID="SqlDataSource1">
        <Columns>
           <asp:BoundField DataField="Id" HeaderText="Id" ReadOnly="True"
SortExpression="Id" />
           <asp:BoundField DataField="Name" HeaderText="Name" SortExpression="Name" />
           <asp:BoundField DataField="City" HeaderText="City" SortExpression="City" />
         </Columns>
         <FooterStyle BackColor="#F7DFB5" ForeColor="#8C4510" />
         <HeaderStyle BackColor="#A55129" Font-Bold="True" ForeColor="White" />
         <PagerStyle ForeColor="#8C4510" HorizontalAlign="Center" />
         <RowStyle BackColor="#FFF7E7" ForeColor="#8C4510" />
         <SelectedRowStyle BackColor="#738A9C" Font-Bold="True" ForeColor="White" />
         <SortedAscendingCellStyle BackColor="#FFF1D4" />
         <SortedAscendingHeaderStyle BackColor="#B95C30" />
         <SortedDescendingCellStyle BackColor="#F1E5CE" />
         <SortedDescendingHeaderStyle BackColor="#93451F" />
      </asp:GridView>
      <asp:ListView ID="ListView1" runat="server" DataKeyNames="Id"
DataSourceID="SqlDataSource1">
         <AlternatingItemTemplate>
           style="background-color: #FAFAD2;color: #284775;">Id:
             <asp:Label ID="IdLabel" runat="server" Text='<%# Eval('Id") %>'/>
             <br/>>
             Name:
             <asp:Label ID="NameLabel" runat="server" Text='<%# Eval("Name") %>'/>
             <br/>>
             City:
             <asp:Label ID="CityLabel" runat="server" Text='<%# Eval("City") %>'/>
             <br/>
```

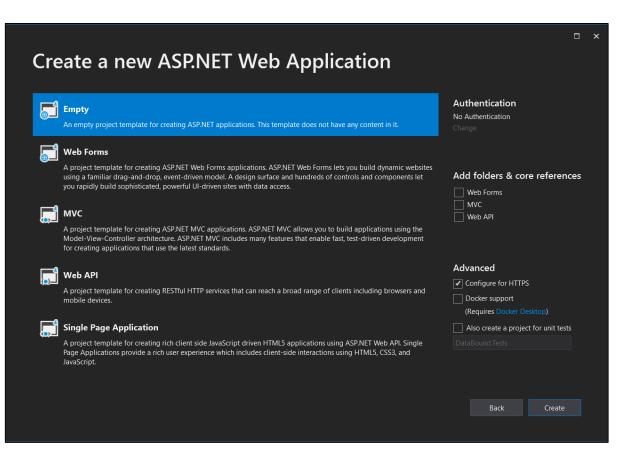
```
</AlternatingItemTemplate>
        <EditItemTemplate>
          style="background-color: #FFCC66;color: #000080;">Id:
             <asp:Label ID="IdLabel1" runat="server" Text='<%# Eval('Id") %>'/>
             <br/>>
            Name:
             <asp:TextBox ID="NameTextBox" runat="server" Text='<%# Bind("Name") %>'/>
             <br/>>
             City:
             <asp:TextBox ID="CityTextBox" runat="server" Text='<%# Bind("City") %>'/>
             <asp:Button ID="UpdateButton" runat="server" CommandName="Update"
Text="Update" />
             <asp:Button ID="CancelButton" runat="server" CommandName="Cancel"
Text="Cancel" />
          </EditItemTemplate>
        <EmptyDataTemplate>
          No data was returned.
        </EmptyDataTemplate>
        <InsertItemTemplate>
          style="">Id:
             <asp:TextBox ID="IdTextBox" runat="server" Text='<%# Bind("Id") %>'/>
             <br/>Name:
             <asp:TextBox ID="NameTextBox" runat="server" Text='<%# Bind("Name") %>'/>
             <br/>City:
             <asp:TextBox ID="CityTextBox" runat="server" Text='<%# Bind("City") %>'/>
             <br >
             <asp:Button ID="InsertButton" runat="server" CommandName="Insert"
Text="Insert" />
             <asp:Button ID="CancelButton" runat="server" CommandName="Cancel"
Text="Clear" />
          InsertItemTemplate>
        <ItemSeparatorTemplate>
<br/>>
        /ItemSeparatorTemplate>
        <ItemTemplate>
          style="background-color: #FFFBD6;color: #333333;">Id:
             <asp:Label ID="IdLabel" runat="server" Text='<%# Eval("Id") %>'/>
             <br/>>
             Name:
             <asp:Label ID="NameLabel" runat="server" Text='<%# Eval("Name") %>' />
             <br/>>
             Citv:
             <asp:Label ID="CityLabel" runat="server" Text='<%# Eval("City") %>'/>
             <br/>>
          /ItemTemplate>
        <LayoutTemplate>
          Helvetica. sans-serif:">
             runat="server" id="itemPlaceholder" />
          <div style="text-align: center;background-color: #FFCC66;font-family: Verdana,</pre>
Arial. Helvetica. sans-serif:color: #333333:">
```

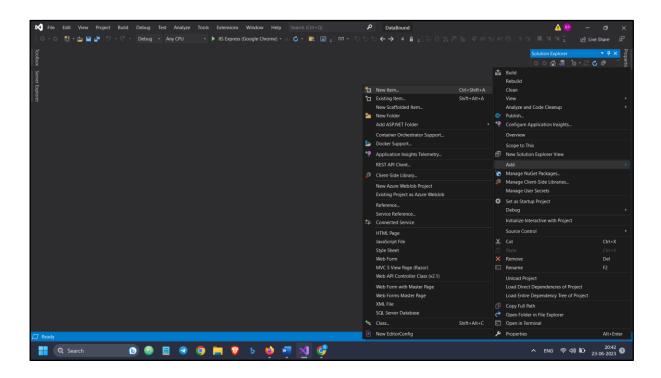
```
</div>
         </LayoutTemplate>
         <SelectedItemTemplate>
           style="background-color: #FFCC66;font-weight: bold;color: #000080;">Id:
             <asp:Label ID="IdLabel" runat="server" Text='<%# Eval("Id") %>'/>
             <br/>br/>
             Name:
             <asp:Label ID="NameLabel" runat="server" Text='<%# Eval("Name") %>' />
             City:
             <asp:Label ID="CityLabel" runat="server" Text='<%# Eval("City") %>'/>
             <br/>br/>
           </SelectedItemTemplate>
       </asp:ListView>
       <br/>>
       <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:rupeshConnectionString %>"
SelectCommand="SELECT * FROM [employee]"></asp:SqlDataSource>
    </div>
  </form>
</body>
</html>
```

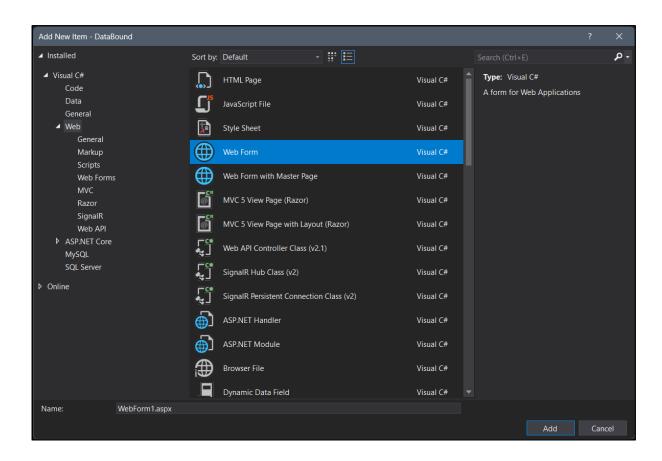
Screenshots of steps:

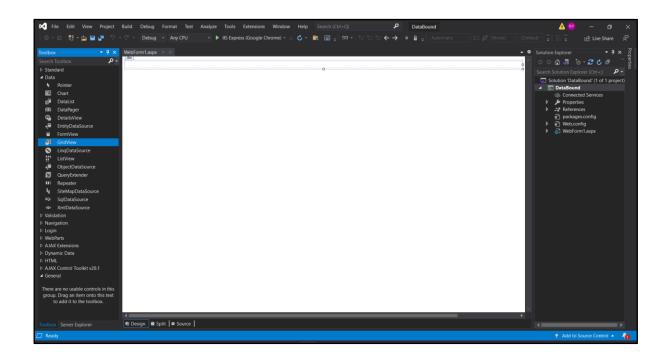


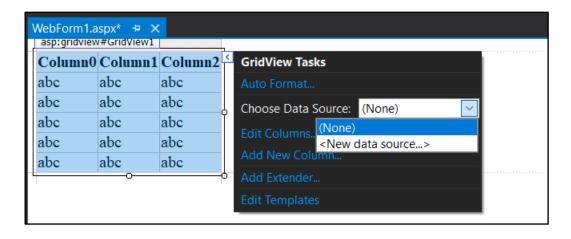


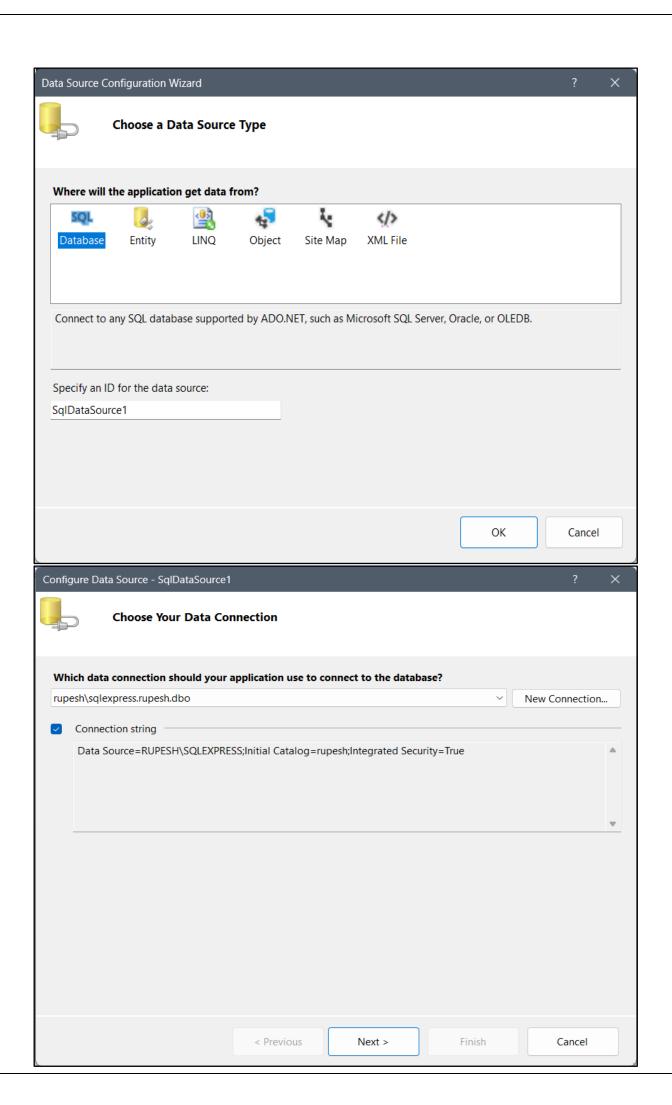


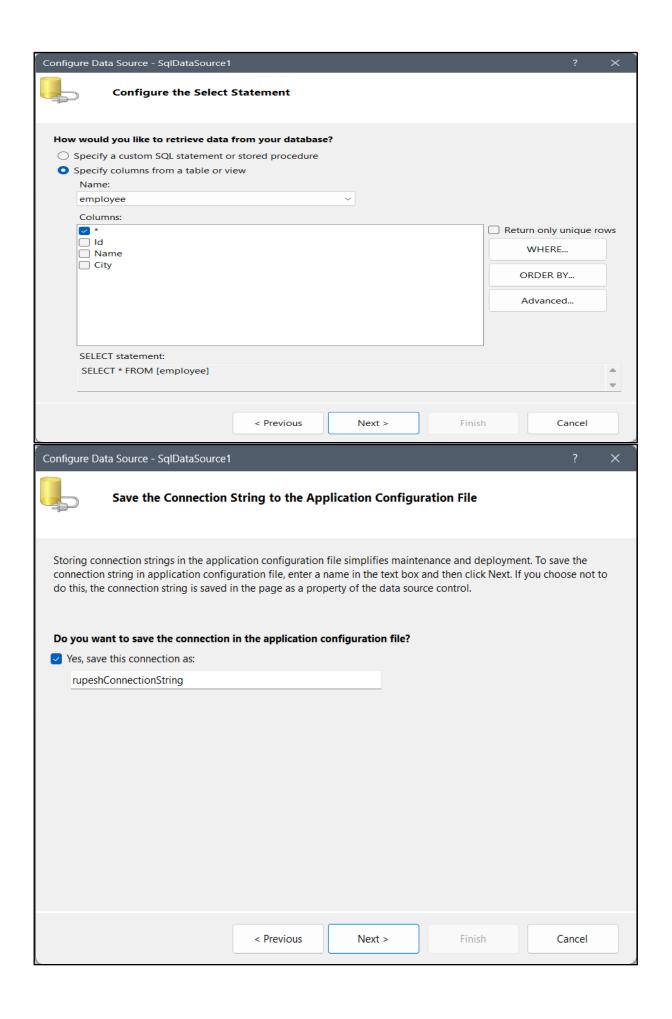


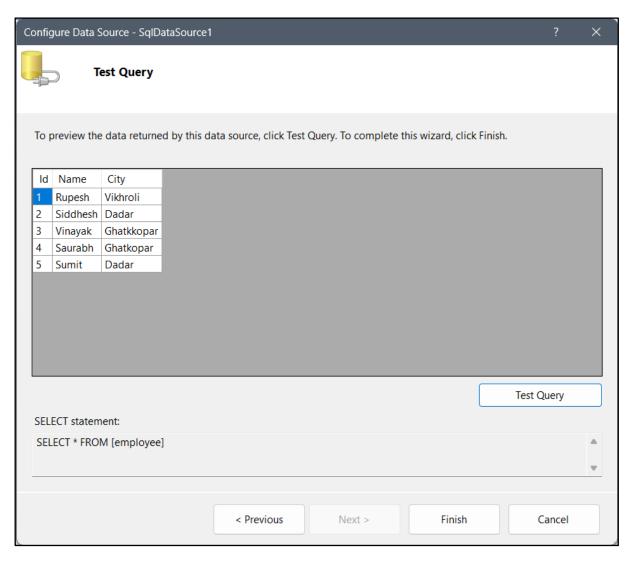


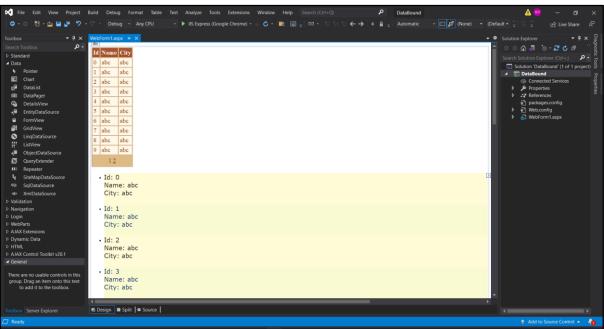


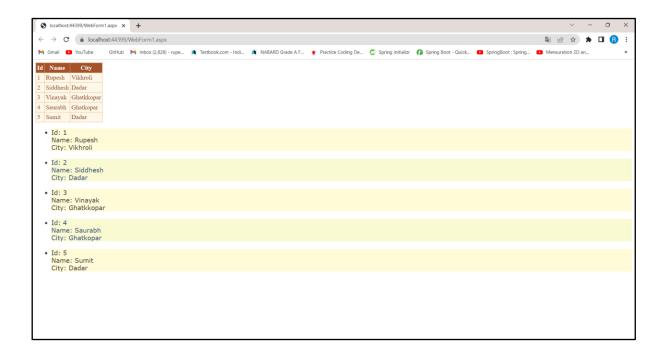










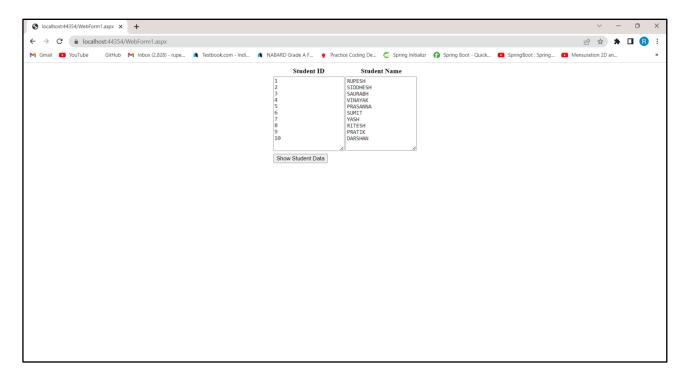


B. Design a webpage to demonstrate a connection oriented architecture.

Source Code:

```
WebForm1.aspx:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="ConnectedArch.WebForm1" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
  <style type="text/css">
  </style>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <center>
      >
          <asp:Label ID="Label1" runat="server" Text="Student ID"></asp:Label>
          <th>
            <asp:Label ID="Label2" runat="server" Text="Student Name"></asp:Label>
          <asp:TextBox ID="TextBox1" TextMode="MultiLine" runat="server"</pre>
Height="172px"></asp:TextBox>
          <asp:TextBox ID="TextBox2" TextMode="MultiLine" runat="server"</pre>
Height="171px"></asp:TextBox>
          <asp:Button ID="Button1" runat="server" Text="Show Student Data"</pre>
OnClick="Button1 Click" />
        </center>
    </div>
  </form>
</body>
<del></html></del>
```

```
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.SqlClient;
using System.Data;
namespace ConnectedArch
  public partial class WebForm1 : System.Web.UI.Page
    SqlConnection con;
    SqlCommand cmd;
    SqlDataReader reader;
    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();
    }
    protected void Button1_Click(object sender, EventArgs e)
      TextBox1.Text = null;
      TextBox2.Text = null;
      cmd = new SqlCommand("select * from student", con);
       reader = cmd.ExecuteReader();
       while(reader.Read())
         TextBox1.Text+=reader[0].ToString() + " "+Environment.NewLine;
         TextBox2.Text+=reader[1].ToString()+" "+Environment.NewLine;
       }
      con.Close();
  }
```



C. Design a webpage to demonstrate a disconnected architecture.

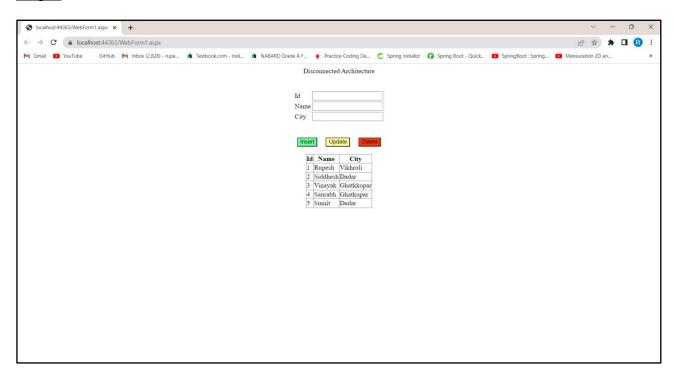
```
WebForm1.aspx:
< @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="DisconnectedArch.WebForm1" EnableEventValidation="False" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
  <style type="text/css">
    .center-table {
      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:Labe>
      <br/>>
      <br/>>
      <br/>>
      <asp:Label ID="Label2" runat="server" Text="Id"></asp:Labe>
          <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
          <asp:Label ID="Label3" runat="server" Text="Name"></asp:Label>
          <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
          <asp:Label ID="Label4" runat="server" Text="City"></asp:Label>
          <del></del>
```

```
<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
           <br/>>
      <br/>>
      <asp:Button ID="Insert" runat="server" Text="Insert" BackColor="#66FF99"
OnClick="Insert Click" />
   
      <asp:Button ID="Update" runat="server" Text="Update" BackColor="#FFFF99"
OnClick="Update_Click" />
   
      <asp:Button ID="Delete" runat="server" Text="Delete" BackColor="#FF3300"
OnClick="Delete_Click" />
      <br/>>
      <br/>>
      <asp:GridView ID="GridView1" runat="server"</pre>
OnRowDataBound="GridView1_RowDataBound"
OnSelectedIndexChanged="GridView1_SelectedIndexChanged" >
      </asp:GridView>
      <br/>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 Disconnected Arch
  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";
```

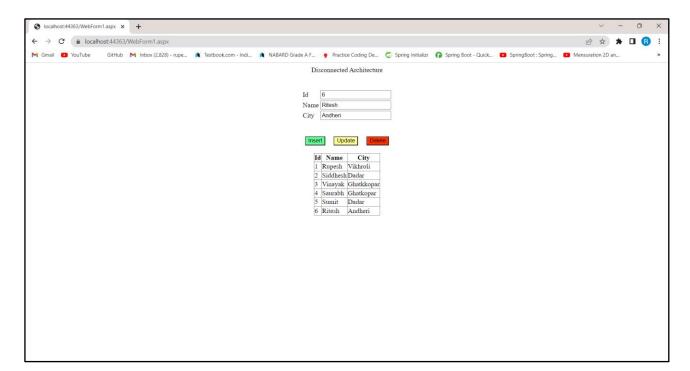
```
myAdapter = new SqlDataAdapter(query, con);
  DataSet ds = new DataSet();
  myAdapter.Fill(ds);
  GridView1.DataSource = ds;
  GridView1.DataBind();
}
protected void Insert Click(object sender, EventArgs e)
  string query = "select * from employee";
  myAdapter = new SqlDataAdapter(query, con);
  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;
}

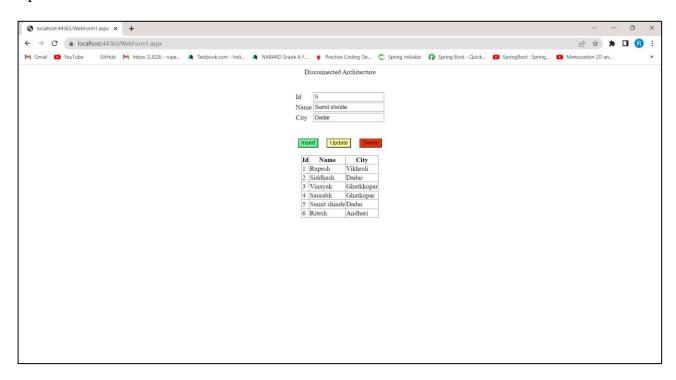
protected void GridView1_RowDataBound(object sender, GridViewRowEventArgs e)
{
    if (e.Row.RowType == DataControlRowType.DataRow) {
        e.Row.Attributes["onclick"] =
    Page.ClientScript.GetPostBackClientHyperlink(GridView1, "select$" + e.Row.RowIndex);
        e.Row.ToolTip = "Click to select this row";
    }
}
}
```



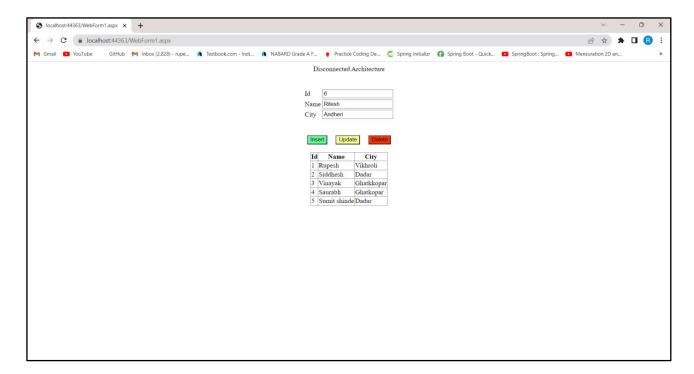
Insert:



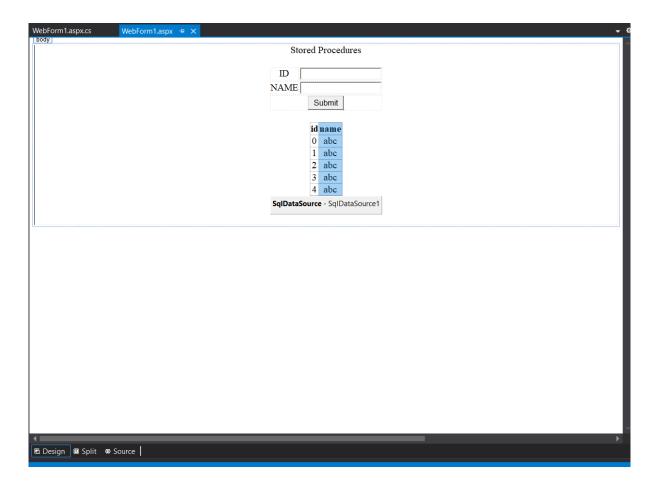
Update:



Delete:

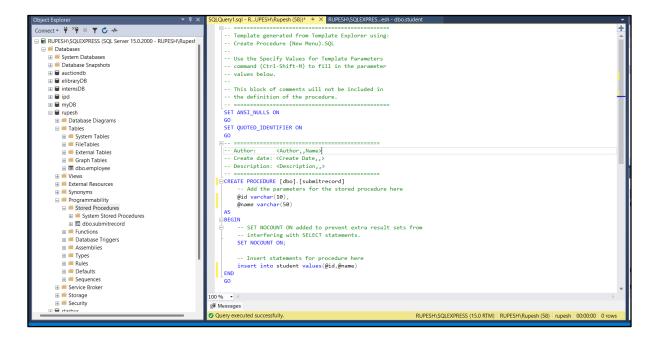


D. Design a webpage to demonstrate use of stored procedure.



Sql code:

```
SET ANSI_NULLS ON
G0
SET QUOTED_IDENTIFIER ON
CREATE PROCEDURE [dbo].[submitrecord]
       -- Add the parameters for the stored procedure here
       @id varchar(10),
       @name varchar(50)
AS
BEGIN
       -- SET NOCOUNT ON added to prevent extra result sets from
       -- interfering with SELECT statements.
       SET NOCOUNT ON;
    -- Insert statements for procedure here
       insert into student values(@id,@name)
END
G0
```



Cs file:

```
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 StoredProcedures
  public partial class WebForm1: System.Web.UI.Page
    SqlConnection con;
    SqlCommand cmd;
    protected void Page_Load(object sender, EventArgs e)
    protected void Button1_Click(object_sender, EventArgs_e)
       con = new SqlConnection(@ "Data Source=RUPESH\SQLEXPRESS;Initial
Catalog=rupesh;Integrated Security=True");
       con.Open();
      cmd = new SqlCommand("submitrecord", con);
       cmd.CommandType = CommandType.StoredProcedure;
       SqlParameter param = cmd.Parameters.Add("@id", SqlDbType.VarChar);
       param.Value = TextBox1.Text;
       SqlParameter param1 = cmd.Parameters.Add("@ name", SqlDbType.VarChar);
       param1.Value = TextBox2.Text;
       cmd.ExecuteNonQuery();
       GridView1.DataBind();
       con.Close();
```

```
}
```



V] State Management Techniques

A. Design Web Applications using Client Side Session Managements Techniques.

```
Source Code:
```

```
CookiesPage1.aspx:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="CookiesPage1.aspx.cs"
Inherits="State Management 2. Cookies Page 1" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
  k 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-</pre>
KJ3o2DKtlkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"</pre>
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"</pre>
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmY1"
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>
             Username
                 <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
                 Password
                   <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
```

```
<asp:Button ID="Button1" runat="server" Text="Create Cookie"
OnClick="Button1_Click" />
                 <asp:Button ID="Button2" runat="server" Text="Clear Cookie"
OnClick="Button2_Click" />
                 <asp:Button ID="Button3" runat="server" Text="Show Cookies"
OnClick="Button3_Click" />
                 <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.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace StateManagement2
  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();
         Table 2. 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);
         Table 2. Visible = false;
HiddenFieldPage.aspx:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="HiddenFieldPage.aspx.cs"
Inherits="StateManagement2.HiddenFieldPage" %>
<!DOCTYPE html>
<a href="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-</pre>
KJ3o2DKtlkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"</pre>
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"</pre>
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmY1"
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>
           Hidden Field is a state control management provided by ASP.NET, Which is use
to store small amount of data on the client (Browser).
             Hidden Field Control is not rendered to the browser and it is not visible on the
browser.
           <asp:HiddenField ID="HiddenField1" runat="server" Value="5" />
           <asp:Label ID="Label1" runat="server" Text="" Visible="false" class="font-italic
"></asp:Labe>
           <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="StateManagement2.QueryStringPage1" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
  rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
```

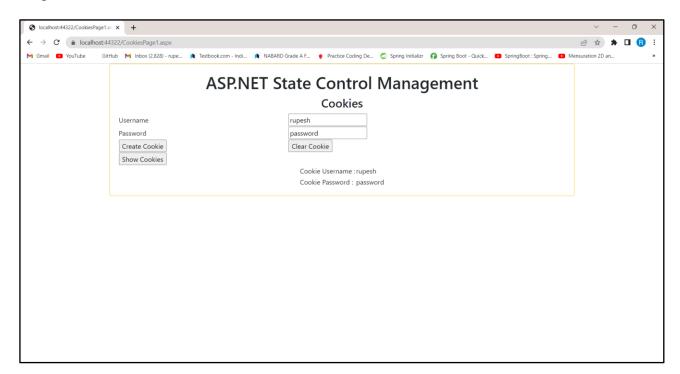
```
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-</pre>
KJ3o2DKtlkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"</pre>
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"</pre>
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmY1"
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>
           style="text-align: left">
             Query String is a collection of character input to a computer or a browser.
Enter First Name : 
               <div class="form-group">
                 <asp:TextBox Class="form-control" ID="TextBox1"
runat="server"></asp:TextBox></div>
               Enter Last Name : 
               <div class="form-group">
                 <asp:TextBox Class="form-control" ID="TextBox2"
runat="server"></asp:TextBox></div>
               <asp:Button ID="submit" runat="server" Text="Submit"
OnClick="submit Click" />
             </div>
       </div>
      </center>
    </div>
  </form>
</body>
```

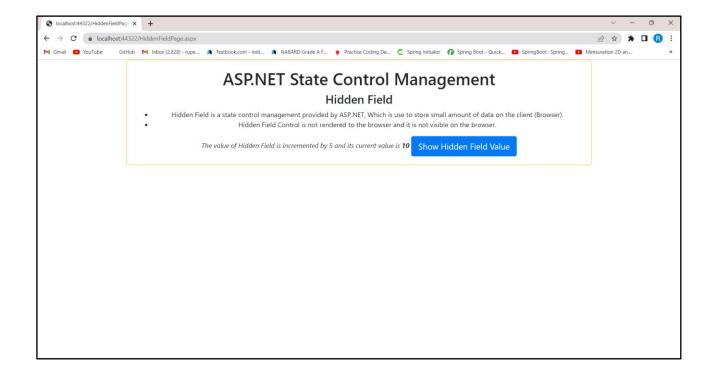
```
</html>
HiddenFieldPage.cs:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace StateManagement2
  public partial class HiddenFieldPage: System.Web.UI.Page
    protected void Page_Load(object sender, 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="StateManagement2.ViewStatePage" %>
<!DOCTYPE html>
<a href="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-</pre>
KJ3o2DKtlkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"</pre>
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"</pre>
integrity="sha384-
```

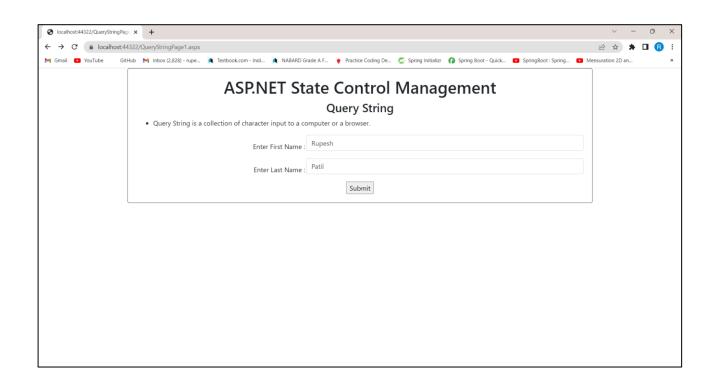
```
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmY1"
crossorigin="anonymous"></script>
</head>
<body>
 <form id="form1" runat="server">
   < div >
     <center>
       <div class="container">
        <div class="card, card-body border border-dark rounded">
          <h1>ASP.NET State Control Management</h1>
          <h3>View State</h3>
          style="text-align: left">
            View State is another client side state management control/technique, which is
used to store user's data
            View State provide page level State Management.
            View State can store any type of data.
          Enter Your Name : 
              <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
              <asp:Button ID="save" runat="server" Text="Save" OnClick="save_Click"
class="btn btn-primary" />
              <asp:Button ID="display" runat="server" Text="Display"
OnClick="display_Click" class="btn btn-danger" />
              Data in View State : 
              <asp:Label ID="Label1" runat="server" Text=""></asp:Labe >
            Number of PostBack: 
              <asp:Label ID="Label2" runat="server" Text=""></asp:Label>
            </div>
       </div>
     </center>
   </div>
 </form>
</body>
</html>
ViewStatePage.cs:
using System;
```

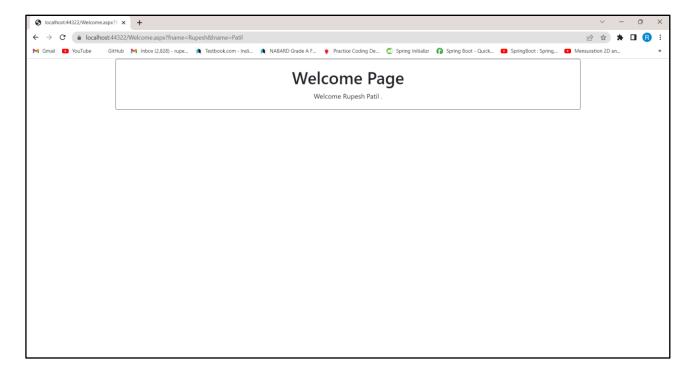
```
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace StateManagement2
  public partial class ViewStatePage : System.Web.UI.Page
    protected void Page_Load(object sender, EventArgs e)
       if (IsPostBack)
         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";
    }
    protected void save_Click(object sender, EventArgs e)
       ViewState["userName"] = TextBox1.Text;
       TextBox1.Text = "";
       Label2.Text = ViewState["Counter"].ToString();
    protected 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"</p>
Inherits="StateManagement2.Welcome" %>
<!DOCTYPE html>
<a href="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
```

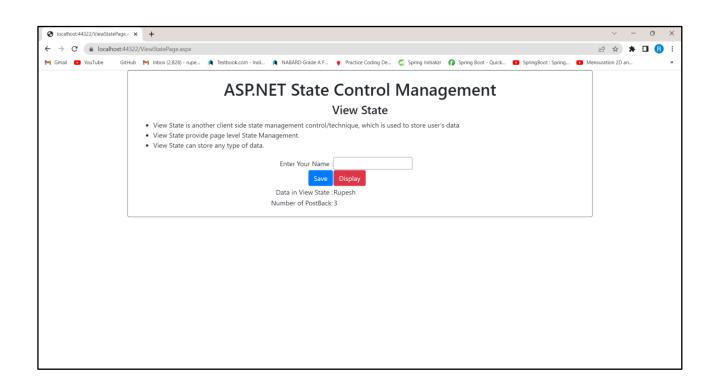
```
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
  <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-</pre>
KJ3o2DKtlkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"</pre>
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"</pre>
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmY1"
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:Labe>
           </div>
         </div>
       </center>
    </div>
  </form>
</body>
</html>
Welcome.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace StateManagement2
  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 + " .";
    }
  }
}
```









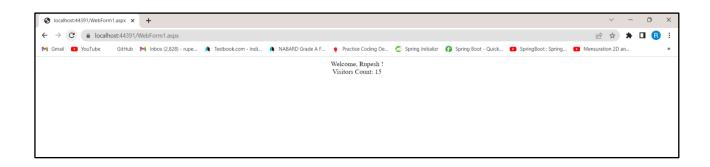


B. Design Web Applications using Server Side Session Management Techniques

```
Home.aspx:
< @ Page Language="C#" AutoEventWireup="true" CodeBehind="Home.aspx.cs"
Inherits="sessionandapplication. Home" %>
<!DOCTYPE html>
<a href="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.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace sessionandapplication
  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="sessionandapplication.WebForm1" %>
<!DOCTYPE html>
<a href="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</pre>
ID="Label2" runat="server" Text=""></asp:Label>
       </center>
    </div>
  </form>
</body>
</html>
WebForm1.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace sessionandapplication
  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();
    }
```





VI | Web Services and WCF

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

```
< @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="SimpleInterestWebService.WebForm1" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
 <title></title>
 <style type="text/css">
 </style>
</head>
<body>
 <form id="form1" runat="server">
   <center>
   Enter value of Principal
       <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
       Enter value of Years
         <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
       Enter value of ROI
       <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
       <asp:Button ID="Button1" runat="server" Text="Calculate Simple Interest"</pre>
OnClick="Button1_Click" />
        
     <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.Ling;
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();
     }
```



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>
<a href="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>
       Enter rate of intrest:
       <asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
       <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Calculate" />
       <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.Ling;
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:
 M Gmail 🔼 YouTube GitHub M Inbox (2,828) - rupe... 🚺 Testbook.com - Indi... 🐧 NABARD Grade A F... 🕴 Practice Coding De... 🙋 Spring Initializz 🚯 Spring Boot - Quick... 🔼 SpringBoot : Springs... 🔼 Mensuration 2D an
Enter principle: 400000
Enter number of years: 2
Enter rate of intrest: 5.7
```

VII] ASP.NET MVC A. Design MVC based Web applications.

```
Source Code:
HomeController.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.Mvc;
namespace mvcproject.Controllers
  public class HomeController: Controller
    public ActionResult Index()
      return View();
    public ActionResult About()
      ViewBag.Message = "Your application description page.";
      return View();
    }
    public ActionResult Contact()
      ViewBag.Message = "Your contact page.";
      return View();
    public ActionResult StoryBooks()
      ViewBag.Message = "Your contact page.";
      return View();
    }
    public ActionResult FantasyNovels()
      ViewBag.Message = "Your contact page.";
      return View();
    public ActionResult MarathiBooks()
      ViewBag.Message = "Your contact page.";
```

```
return View();
    }
 }
}
Layout.cshtml:
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>@ViewBag.Title - My ASP.NET Application</title>
  @Styles.Render("~/Content/css")
  @Scripts.Render("~/bundles/modernizr")
  @RenderSection("Styles", required: true)
</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("Books", "Index", "Home", new { area = "" }, new { @class = "navbar-
brand" })
      </div>
      <div class="navbar-collapse collapse">
        @Html.ActionLink("Home", "Index", "Home")
          @Html.ActionLink("About", "About", "Home")
          @Html.ActionLink("Contact", "Contact", "Home")
        </div>
    </div>
  </div>
  <div class="container body-content">
    @RenderBody()
    <hr />
      © @DateTime.Now.Year - Vinu Book Store Sanglikar.
    </footer>
  </div>
  @Scripts.Render("~/bundles/jquery")
  @Scripts.Render("~/bundles/bootstrap")
  @RenderSection("scripts", required: false)
</body>
```

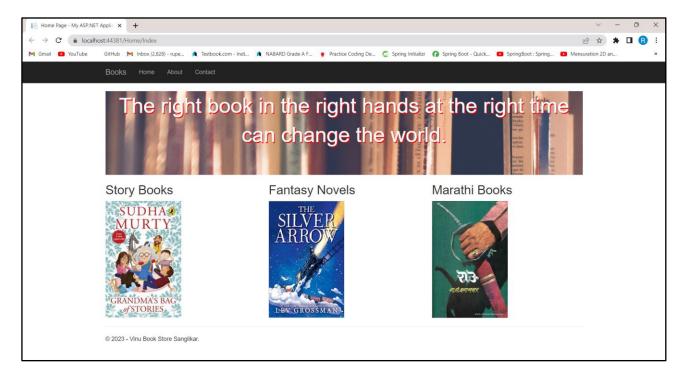
```
</html>
Index.cshtml:
@{
  ViewBag.Title = "Home Page";
@section Styles
  <style type="text/css">
    .maindiv {
      background-image:url('../../img/wallhavenBook.jpg');
      height: 200px;
      width: 100%;
      color:azure;
      align-content:center;
    }
    .lala {
      text-align: center;
      font-size: 50px;
      text-shadow: inherit;
      text-shadow: 2px 2px #FF0000;
  </style>
<div class="maindiv">
  <h1 class="lead lala">
    The right book in the right hands at the right time
    can change the world.
  </h1>
</div>
<div class="row">
  <div class="col-md-4">
    <h2>Story Books</h2>
    <div>
      <a href="~/Home/StoryBooks">
        <img src="~/img/storybooks.jpg" />
      </a>
    </div>
  </div>
  <div class="col-md-4">
    <h2>Fantasy Novels</h2>
      <a href="~/Home/FantasyNovels">
        <img width="181" height="279" src="~/img/fantasy.jpg"/>
```

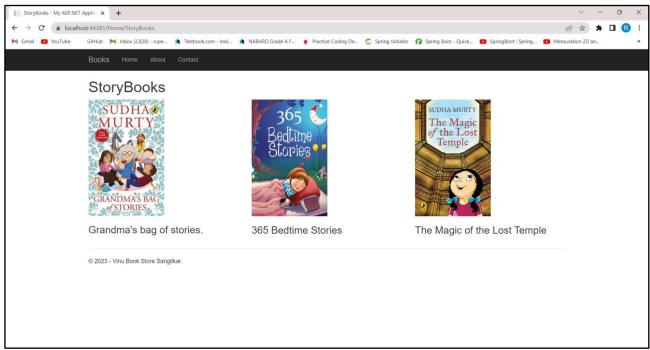
```
</a>
    </div>
  </div>
  <div class="col-md-4">
    <h2>Marathi Books</h2>
    <div>
      <a href="~/Home/MarathiBooks">
        <img src="~/img/rau.jpg" />
      </a>
    </div>
  </div>
</div>
StoryBooks.cshtml:
@{
  ViewBag.Title = "StoryBooks";
@section Styles
}
<h1>StoryBooks</h1>
<div class="row">
  <div class="col-md-4">
    <div>
      <a href="https://www.goodreads.com/en/book/show/13510813"><img
src="~/img/storybooks.jpg" /></a>
    </div>
    <h3>Grandma's bag of stories.</h3>
  </div>
  <div class="col-md-4">
    <div>
href="https://www.goodreads.com/book/show/523663.Disney 365 Bedtime Stories?ref=nav sb
_ss_2_11"> <img width="181" height="279" src="~/img/365bedtimestories.jpg" /></a>
```

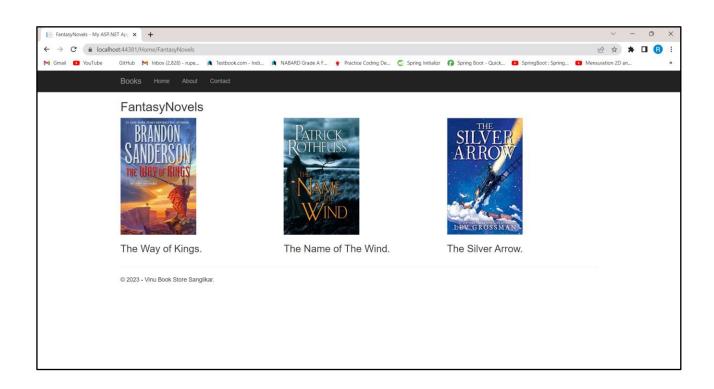
```
</div>
    <h3>365 Bedtime Stories</h3>
  <div class="col-md-4">
    <div>
      <a href="https://www.goodreads.com/book/show/27558257-the-magic-of-the-lost-
temple?ref=nav sb ss 1 23"> <img width="181" height="279" src="~/img/themagic.jpg" /></a>
    </div>
    <h3>The Magic of the Lost Temple</h3>
  </div>
</div>
FantasyNovels.cshtml:
@{
  ViewBag.Title = "FantasyNovels";
@section Styles
}
<h2>FantasyNovels</h2>
<div class="row">
  <div class="col-md-4">
    <div>
      <a href="https://www.goodreads.com/book/show/7235533-the-way-of-kings"><img
width="181" height="279" src="~/img/wayofking.jpg" /></a>
    </div>
    <h3>The Way of Kings.</h3>
  </div>
  <div class="col-md-4">
    <div>
      <a href="https://www.goodreads.com/book/show/186074.The Name of the Wind">
<img width="181" height="279" src="~/img/nameofwind.jpg" /></a>
    </div>
```

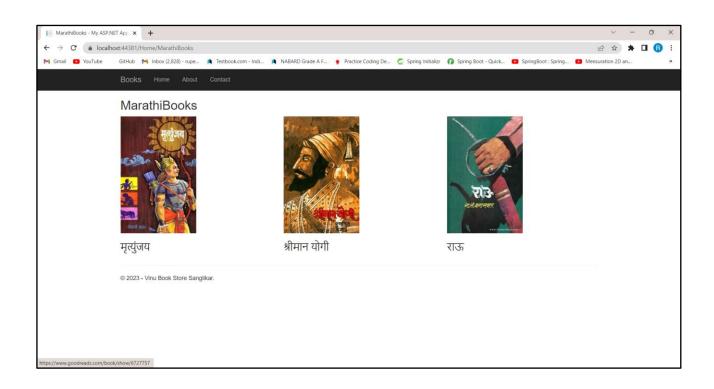
```
<h3>The Name of The Wind.</h3>
  </div>
  <div class="col-md-4">
    <div>
      <a href="https://www.goodreads.com/book/show/50358143-the-silver-
arrow?ref=nav_sb_ss_2_13"> <img width="181" height="279" src="~/img/fantasy.jpg" /></a>
    </div>
    <h3>The Silver Arrow.</h3>
  </div>
</div>
MarathiBooks.cshtml:
@{
  ViewBag.Title = "MarathiBooks";
<h2>MarathiBooks</h2>
<div class="row">
  <div class="col-md-4">
    <div>
      <a href="https://www.goodreads.com/book/show/6369447">
        <img width="181" height="279" src="~/img/mrutyunjay.jpg" />
      </a>
    </div>
    <h3>मृत्य्जय</h3>
  </div>
  <div class="col-md-4">
    <div>
      <a href="https://www.goodreads.com/book/show/6727757">
        <img width="181" height="279" src="~/img/shrimanyogi.jpg" />
      </a>
      <h3>श्रीमान योगी</h3>
    </div>
  </div>
  <div class="col-md-4">
      <a href="https://www.goodreads.com/en/book/show/10370459">
        <img width="181" height="279" src="~/img/rau.jpg" />
      </a>
```

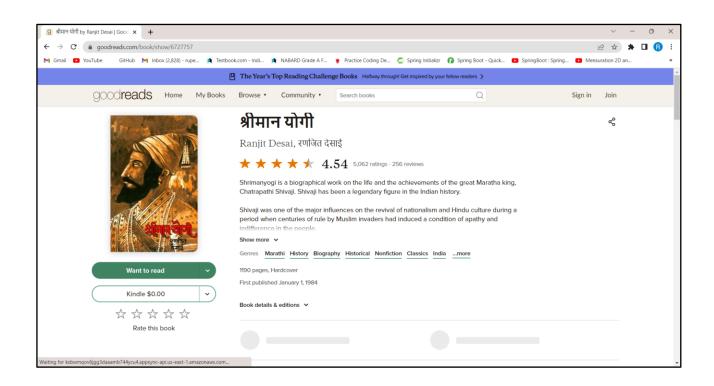
```
<h3>₹1ऊ</h3>
</div>
</div>
</div>
```











VIII] LINQ

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

```
< @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="linq.WebForm1" %>
<!DOCTYPE html>
<a href="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:Labe>
    </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 ling
  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 = 475 \text{m},
          dateOfRelease = Convert.ToDateTime("2013-05-30")
       return list;
  }
```

