Assignment 1) Creation of Virtual Directory, Home directory, Home page, hosting of website

Assignment 2) Demonstrate Page Life Cycle of ASP.NET. Use important page events for your demonstration.

- 1. File-New Website
- 2. Take 1 Label and 1 Button
- 3. Write Following Code

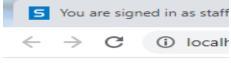
```
using System;
using System.Configuration;
using System.Data;
using System.Ling;
using System.Web;
using System. Web. Security;
using System.Web.UI;
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System. Web. UI. WebControls. WebParts;
using System.Xml.Ling;
public partial class Default : System.Web.UI.Page
   protected void Page PreInit(object sender, EventArgs e)
       //Work and It will assign the values to label.
       protected void Page Init(object sender, EventArgs e)
       //Work and It will assign the values to label.
       protected void Page InitComplete(object sender, EventArgs e)
       //Work and It will assign the values to label.
       Label1.Text = Label1.Text + "<br/>" + "InitComplete";
   protected override void OnPreLoad(EventArgs e)
       //Work and It will assign the values to label.
       //If the page is post back, then label contrl values will be
loaded from view state.
       //E.g: If you string str = Labell.Text, then str will contain
viewstate values.
       Label1.Text = Label1.Text + "<br/>" + "PreLoad";
   protected void Page Load(object sender, EventArgs e)
```

```
//Work and It will assign the values to label.
       Label1.Text = Label1.Text + "<br/>' + "Load";
   protected void Button1 Click(object sender, EventArgs e)
       //Work and It will assign the values to label.
       Label1.Text = Label1.Text + "<br/>" + "btnSubmit Click";
   protected void Page LoadComplete(object sender, EventArgs e)
       //Work and It will assign the values to label.
       protected override void OnPreRender(EventArgs e)
       //Work and It will assign the values to label.
       Label1.Text = Label1.Text + "<br/>" + "PreRender";
   protected override void OnSaveStateComplete(EventArgs e)
       //Work and It will assign the values to label.
       //But "SaveStateComplete" values will not be available during post
back. i.e. View state.
       Label1.Text = Label1.Text + "<br/>br/>" + "SaveStateComplete";
   protected void Page UnLoad(object sender, EventArgs e)
       //Work and it will not effect label contrl, view stae and post
back data.
       Label1.Text = Label1.Text + "<br/>" + "UnLoad";
}
```

4. Run

OUTPUT:-

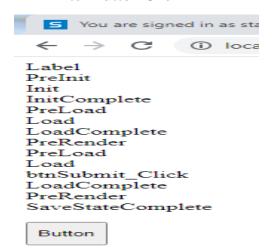
Before Button Click



Label
PreInit
Init
InitComplete
PreLoad
Load
LoadComplete
PreRender
SaveStateComplete



After Button Click



Assignment 3) Write VB.Net/C# console applications to demonstrate: OO concepts: polymorphism, encapsulation, inheritance, interface inheritance, abstract classes/methods, overloading, overriding, collection classes, properties

- 1. File-New Project-Console Application
- 2. Write Following Code

```
using System;
using System.Collections;
    //Function Overloading
    /*class Program
        public void add(int a, int b)
            Console.WriteLine(a + b);
        public void add(float x, float y)
            Console.WriteLine(x + y);
        public void add(string s1, string s2)
            Console.WriteLine(s1 + s2);
        static void Main(string[] args)
            Program obj = new Program();
            obj.add(10, 20);
            obj.add(10.5f, 20.5f);
            obj.add("pranaya", "kumar");
            Console. WriteLine ("Press any key to exist.");
            Console.ReadKey();
    } * /
    //Function Overriding
    /*class Class1
            public virtual void show()
                Console. WriteLine ("Super class show method");
      class Class2 : Class1
            public override void show()
                Console.WriteLine("Sub class override show method");
        class Program
            static void Main(string[] args)
                Class2 obj = new Class2();
```

```
obj.show();
                Console.ReadKey();
        } * /
    //Function Hiding
    /*class Class1
        public void display()
            Console.WriteLine("Super class display method");
    class Class2 : Class1
        public new void display()
            Console.WriteLine("Sub class display method");
    }
    class Program
        static void Main(string[] args)
            Class2 obj = new Class2();
            obj.display();
            Console.ReadKey();
    } * /
    //Encapsulation
    /*public class Bank
        //hiding class data by declaring the variable as private
        private double balance;
        //creating public setter and getter methods
        public double getBalance()
            //add validation logic if needed
            return balance;
        public void setBalance(double balance)
            // add validation logic to check whether data is correct or
not
            this.balance = balance;
    class BankUser
        public static void Main()
            Bank SBI = new Bank();
            SBI.setBalance(500);
            Console.WriteLine(SBI.getBalance());
            Console. WriteLine ("Press any key to exist.");
            Console.ReadKey();
    } * /
```

```
//inheritance
/*class Branch
    int BranchCode;
    string BranchName, BranchAddress;
    public void GetBranchData()
        Console.WriteLine("ENTER BRANCH DETAILS:");
        Console.WriteLine("ENTER BRANCH CODE");
        BranchCode = int.Parse(Console.ReadLine());
        Console.WriteLine("ENTER BRANCH NAME");
        BranchName = Console.ReadLine();
        Console.WriteLine("ENTER BRANCH ADDRESS");
        BranchAddress = Console.ReadLine();
    public void DisplayBranchData()
    {
        Console.WriteLine("BRANCH CODE IS : " + BranchCode);
        Console.WriteLine("BRANCH NAME IS : " + BranchName);
        Console.WriteLine("BRANCH ADDRESS IS : " + BranchAddress);
class Employee : Branch
    int EmployeeId, EmployeeAge;
    string EmployeeName, EmployeeAddress;
   public void GetEmployeeData()
        Console.WriteLine("ENTER EMPLYEE DETAILS:");
        Console.WriteLine("ENTER EMPLOYEE ID");
        EmployeeId = int.Parse(Console.ReadLine());
        Console.WriteLine("ENTER EMPLOYEE AGE");
        EmployeeAge = int.Parse(Console.ReadLine());
        Console.WriteLine("ENTER EMPLOYEE NAME");
        EmployeeName = Console.ReadLine();
        Console.WriteLine("ENTER EMPLOYEE ADDRESS");
        EmployeeAddress = Console.ReadLine();
   public void DisplayEmployeeData()
        Console.WriteLine("EMPLOYEE ID IS : " + EmployeeId);
        Console.WriteLine("EMPLOYEE NAME IS : " + EmployeeName);
        Console.WriteLine("EMPLOYEE ADDRESS IS : " + EmployeeAddress);
        Console.WriteLine("EMPLOYEE AGE IS : " + EmployeeAge);
class Program
    static void Main(string[] args)
        Employee obj1 = new Employee();
        obj1.GetBranchData();
        obj1.GetEmployeeData();
        obj1.DisplayBranchData();
        obj1.DisplayEmployeeData();
        Console. WriteLine ("Press any key to exist.");
        Console.ReadKey();
```

```
} * /
//interface inheritance
/*public interface A
    void method1();
   void method2();
interface B : A
   void method3();
class MyClass : B
   public void method1()
        Console.WriteLine("implement method1");
    public void method2()
        Console.WriteLine("implement method2");
    public void method3()
        Console.WriteLine("implement method3");
class Program
    static void Main(string[] args)
        MyClass obj = new MyClass();
        obj.method1();
        obj.method2();
        obj.method3();
        Console.WriteLine("Press any key to exist.");
        Console.ReadKey();
} * /
//Abstract classes/methods
/*public abstract class MyClass
    public abstract void calculate(double x);
    public void show()
        Console.WriteLine("Show");
class Sub1 : MyClass
   public override void calculate(double x)
        Console.WriteLine("SQUARE ROOT IS " + Math.Sqrt(x));
class Test
```

```
static void Main(string[] args)
            Sub1 obj1 = new Sub1();
            obj1.calculate(9);
            obj1.show();
            Console.ReadKey();
    } * /
//Collection Classes Stack, Queue, LinkedList, SortedList, ArrayList,
HashTable, etc.
/*class Program
    static void Main(string[] args)
        //Createing ArrayList collection using default constructor
        ArrayList al = new ArrayList();
        Console.WriteLine("Initial Capacity: " + al.Capacity);
        al.Add(10);
        Console.WriteLine("Capacity after adding first item: " +
al.Capacity);
        al.Add("hello");
        al.Add(true);
        al.Add(3.14f);
        Console.WriteLine("Capacity after adding fourth item: " +
al.Capacity);
        al.Add('A');
        Console.WriteLine("Capacity after adding 5th element: " +
al.Capacity);
        //Printing the ArrayList elements using for loop
        for (int i = 0; i < al.Count; i++)
        {
            Console.Write(al[i] + " ");
        Console.WriteLine();
        //Removing the values from the middle of the array list
        //here we are removing by value
        al.Remove(true);
        //You can also remove element by using index position
        // al.RemoveAt(2);
        //Printing the ArrayList elements using foreach loop after
        // removing an element from the collection
        foreach (object obj in al)
            Console.Write(obj + " ");
        Console.WriteLine();
        //inserting values into the middle of the array list collection
        al.Insert(2, false);
        // Printing the values of the collection using foreach loop after
        // inserting an element into the middle of the collection
        foreach (object obj in al)
            Console.Write(obj + " ");
        Console.WriteLine();
        // creating new ArrayList collection by passing the old
        // array list as parameter
```

```
ArrayList coll = new ArrayList(al);
        Console.WriteLine("Initial capacity of new array list collection:"
+ coll.Capacity);
        // Printing the values of the new array list collection using
foreach loop
        foreach (object obj in coll)
             Console.Write(obj + " ");
        Console.ReadKey();
} * /
//Properties
public class Example
    private int _empid, _eage;
private string _ename, _eaddress;
public int empid
    {
        set
        {
             _empid = value;
        get
         {
            return empid;
    public int eage
        set
         {
             _eage = value;
        get
         {
             return _eage;
    public string ename
        set
             _ename = value;
         }
        get
         {
             return _ename;
    public string eaddress
        set
             _eaddress = value;
        get
```

```
{
            return eaddress;
}
class Program
    static void Main(string[] args)
        Example obj1 = new Example();
        obj1.empid = 101;
        obj1.ename = "abc";
        obj1.eage = 27;
        obj1.eaddress = "shirpur";
        Console.WriteLine("Employee details are:");
        Console.WriteLine("employee id:" + obj1.empid);
        Console.WriteLine("employee name:" + obj1.ename);
        Console.WriteLine("employee age:" + obj1.eage);
        Console.WriteLine("employee address:" + obj1.eaddress);
        Console.ReadKey();
    }
}
```

3. Run

OUTPUT:-

```
in file:///F:/M.S.Sonawane/Assignment3/bin/Debug/Assignment3.EXE

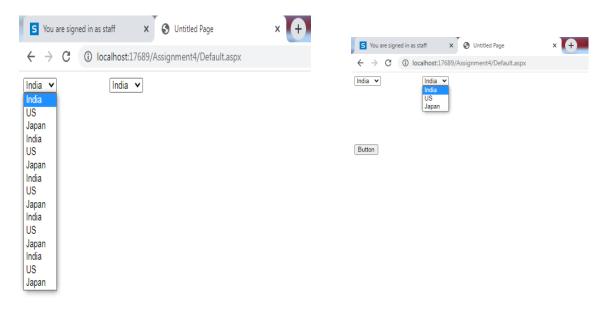
Employee details are:
employee id:101
employee name:abc
employee age:27
employee address:shirpur
```

Assignment 4) Demonstrate concept of postback and viewstate using web form server controls of ASP.NET

- 1. File-New Website
- 2. Take 2 DropDownList2, 2nd having property EnableViewState="false"
- 3. Write Following Code

```
using System;
using System.Configuration;
using System.Data;
using System.Ling;
using System. Web;
using System.Web.Security;
using System. Web. UI;
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Linq;
public partial class Default : System.Web.UI.Page
    protected void Page Load(object sender, EventArgs e)
        bind1();
        bind2();
    public void bind1()
        ListItem 11 = new ListItem("India");
        ListItem 12 = new ListItem("US");
        ListItem 13 = new ListItem("Japan");
        DropDownList1.Items.Add(l1);
        DropDownList1.Items.Add(12);
        DropDownList1.Items.Add(13);
    }
    public void bind2()
        ListItem 11 = new ListItem("India");
        ListItem 12 = new ListItem("US");
        ListItem 13 = new ListItem("Japan");
        DropDownList2.Items.Add(11);
        DropDownList2.Items.Add(12);
        DropDownList2.Items.Add(13);
    protected void Button1 Click(object sender, EventArgs e)
}
```

4. Run



Assignment 5) Demonstrate various Web form server controls using sample data entry screen form for registering for a service on website. Also use validation controls to validate input data.

- 1. File-New Website
- 2. Write Following Code

```
using System;
using System.Configuration;
using System.Data;
using System.Linq;
using System.Web;
using System. Web. Security;
using System.Web.UI;
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System. Web. UI. WebControls. WebParts;
using System.Xml.Ling;
public partial class _Default : System.Web.UI.Page
    protected void Page Load(object sender, EventArgs e)
    {
    protected void CustomValidator1 ServerValidate(object source,
ServerValidateEventArgs args)
    {
        try
```

```
{
            int num = int.Parse(args.Value);
            args.IsValid = ((num % 5) == 0);
        catch (Exception ex)
            args.IsValid = false;
    protected void Button1 Click(object sender, EventArgs e)
        Label1.Text = "Name :- " + TextBox8.Text;
        Label1.Visible = true;
Label2.Text = "Password :- " + TextBox10.Text;
Label2. Visible = true;
Label3.Text = "Confirm Password :- " + TextBox11.Text;
Label3.Visible = true;
Label4.Text = "Age :- " + TextBox12.Text;
Label4. Visible = true;
Label5.Text = "Salary :- " + TextBox13.Text;
Label5. Visible = true;
Label6.Text = "Email :- " + TextBox6.Text;
Label6. Visible = true;
Label7.Text = "Address :- " + TextBox9.Text;
Label7. Visible = true;
if (RadioButton1.Checked)
Label8.Text = " Gender :- Male";
Label8. Visible = true;
else
Label8.Text = " Gender :- Female";
Label8. Visible = true;
if (CheckBox1.Checked)
Label9. Visible = true;
Label 9. Text = "Known Language :- " + CheckBox1. Text;
if (CheckBox2.Checked)
Label9. Visible = true;
Label9.Text += "," + CheckBox2.Text;
string msg = "";
foreach (ListItem li in ListBox1.Items)
    if (li.Selected == true)
        msg += "<BR>" + li.Text + " is selected.";
Label10.Text = msq;
 }
```

3. Run

OUTPUT:-

← → C (i) localhost:1904/WebSite2/Default.aspx				
Name	abc			
Password				
Confirm Password				
Age	35			
Salary	50000			
Email	abc@gmail.com			
Shir	pur			
Address				
Gender Male Female				
Language Known ☑ Marathi ☑ Hindi				
	Red A Green Blue			
Custom Validation				
55				
Button				
Name :- abc				
Password :- pqr				
Confirm Password :- pqr				
Age :- 35				
Salary :- 50000				

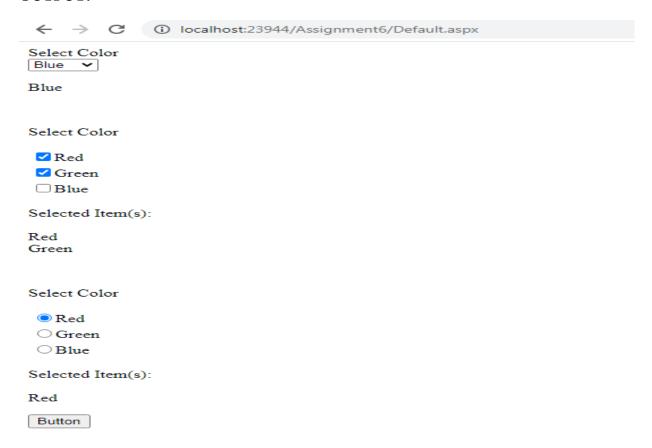
Assignment 6) Demonstrate DropDownList box, CheckButtonList, RadioButtonList controls.

- 1. File-New Website
- 2. Write Following Code

```
using System;
using System.Configuration;
using System.Data;
using System.Ling;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Linq;
public partial class Default : System.Web.UI.Page
    protected void Page Load(object sender, EventArgs e)
    protected void Button1 Click(object sender, EventArgs e)
        Label1.Text = DropDownList1.SelectedValue.ToString();
        Label2.Text = "Selected Item(s): <br /> ';
        for (int i = 0; i < CheckBoxList2.Items.Count; i++)</pre>
            if (CheckBoxList2.Items[i].Selected)
            {
                Label2.Text += CheckBoxList2.Items[i].Text + "<br />";
            }
        }
        Label3.Text = "Selected Item(s): <br /><br />";
        for (int i = 0; i < RadioButtonList1.Items.Count; i++)</pre>
            if (RadioButtonList1.Items[i].Selected)
            {
                Label3.Text += RadioButtonList1.Items[i].Text + "<br/>';
            }
        }
    }
}
```

3. Run

OUTPUT:-

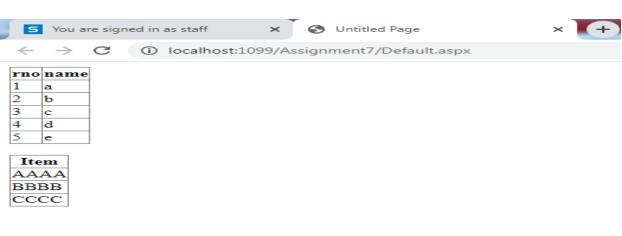


Assignment 7) Demonstrate Databinding using Hashtable, ArraryList, DataTable data sources.

1. Write Following Code in Default.aspx.cs

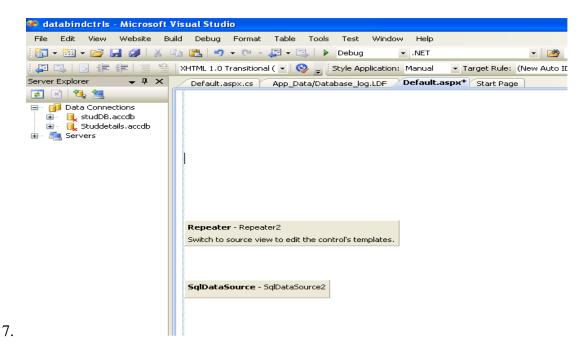
```
using System.Data.SqlClient;
using System.Collections;
using System.Collections.Generic;
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        SqlConnection con = new SqlConnection("Data
        Source=.\\SQLEXPRESS;AttachDbFilename=I:\\2021-22\\Subjects\\CA-305(B)
        Microsoft .Net Technologies\\CA-LAB-XII (B) Lab on Microsoft .Net
        Technologies\\Assignment7\\App_Data\\Database.mdf;Integrated
        Security=True;User Instance=True");
        DataTable ds = new DataTable();
```

```
SqlDataAdapter sde = new SqlDataAdapter("select * from student",
con);
        sde.Fill(ds);
        GridView1.DataSource = ds;
        GridView1.DataBind();
        ArrayList list = new ArrayList();
        list.Add("AAAA");
        list.Add("BBBB");
        list.Add("CCCC");
        GridView2.DataSource = list;
        GridView2.DataBind();
        Hashtable hashItems = new Hashtable();
        hashItems.Add("4", "GGGG");
        hashItems.Add("5","HHHHH");
        hashItems.Add("6","IIII");
        hashItems.Add("7","JJJJ");
        GridView3.DataSource = hashItems;
        GridView3.DataBind();
    }
   2. For Hashtable Write Following Code in Default.aspx
      <asp:GridView ID="GridView3" runat="server"AutoGenerateColumns="false">
          <Columns>
                      <asp:BoundField DataField="key" HeaderText="Roll No" />
                      <asp:BoundField DataField="value" HeaderText="Name" />
           </Columns>
          </asp:GridView>
```



Assignment 8) Demonstrate Repeater control with the help of various templates.

- 1. Right Click on **App_Data** in **Solution Explorer**
- 2. Add New Item select **SQL Server Database** and give database name
- 3. In Server Explorer right click on Tables, select Add New Table
- 4. Right click on your table and select **Show Table Data** and insert records
- 5. Take **GridView** from **Data** click on **Choose Data Source**, **Database**, select your database/table/fields
- 6. Click on **Test Query** and **Finish**

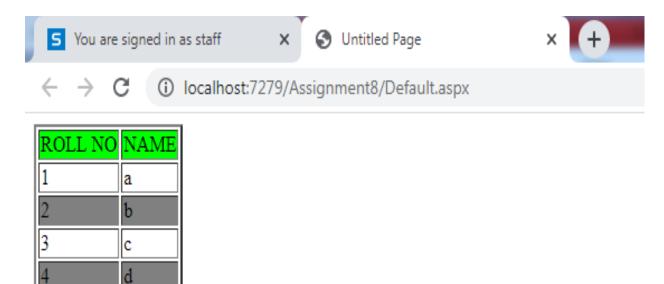


Add Following code in Source view

```
<asp:Repeater ID="Repeater1" runat="server"
DataSourceID="SqlDataSource1">
<HeaderTemplate >
ROLL NO
</d>

NAME
```

8.Save, BUILT & RUN.

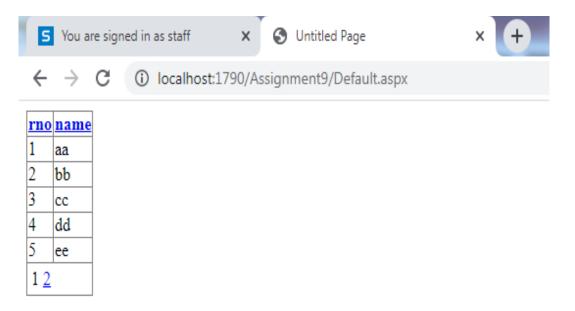


Assignment 9) Demonstrate paging, sorting, filtering of data in asp:DataGrid/DataGridView.

- 1. Right Click on App_Data in Solution Explorer
- 2. Add New Item select **SQL Server Database** and give database name
- 3. In Server Explorer right click on Tables, select Add New Table
- 4. Right click on your table and select **Show Table Data** and insert records
- 5. Take **GridView** from **Data** click on **Choose Data Source, Database,** select your database/table/fields
- 6. Click on **Test Query** and **Finish**

e

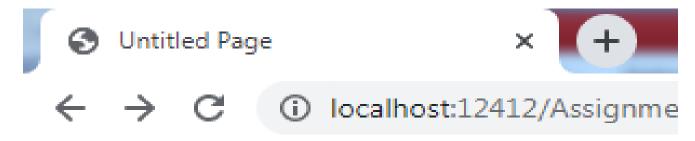
- 7. Click on **GridView** and **Tick Enable Paging, Enable Sorting** and set **PageSize** property.
- 8. Save and Run



Assignment 10) Demonstrate editing process in DataGrid and DataList controls. Make use of necessary templates for proper visual appearance.

Editing process in DataGrid

- 1. Right Click on App_Data in Solution Explorer
- 2. Add New Item select **SQL Server Database** and give database name
- 3. In Server Explorer right click on Tables, select Add New Table
- 4. Right click on your table and select **Show Table Data** and insert records
- 5. Take GridView from Data click on Choose Data Source, Database, select your database/table/fields
- 6. Click on **Test Query** and **Finish**
- 7. Click on **GridView** and set **AutoGenerateDeleteButton=''True''**, **AutoGenerateEditButton=''True**
- 8. Write Following Code in Default.aspx
- 10. SelectCommand="SELECT * FROM [stud]"
- 11. UpdateCommand="update [stud] set [name]=@name where [rno]=@rno" DeleteCommand="delete from [stud] where [rno]=@rno">
- 12. </asp:SqlDataSource>

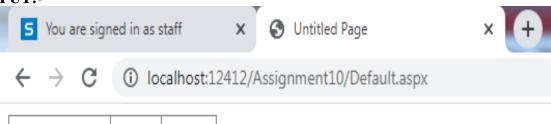


	Rno	Name
Edit Delete	1	aaa
Edit Delete	2	bbb

Use of Templates

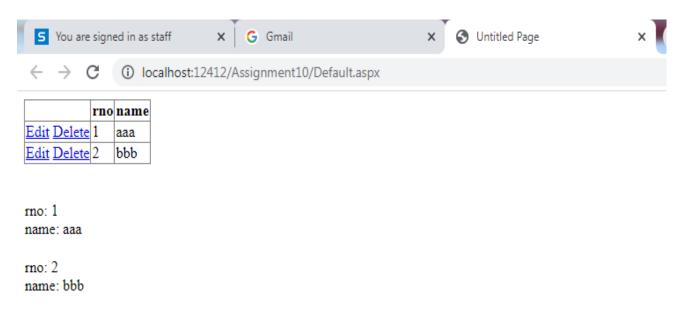
- 1. Click on GridView and Edit Columns
- 2. Select field and click on Convert this field into a TemplateField and observe the code.
- 3. Click on **GridView** and **Edit Templates** and select template that you want to change (Example:- change **EditItemTemplate** of rollnumber to **CheckBox**(Set its Properties), change **EditItemTemplate** of name to **RadioButton**(Set its Properties)).
- 4. Save and Run

OUTPUT:-



	rno	name
Update Cancel	One	○ Two
Edit Delete	2	bbb

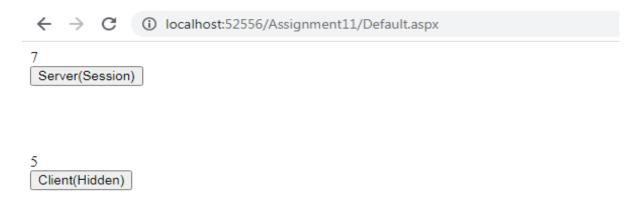
DataList:-



Assignment 11) Demonstrate State Management features of ASP.NET using sample shopping cart application

```
1.Start->Programs->Visual studio 2008
2.Create new web site.
3. Take Label1, Button1
4. Write following code
      protected void Button1 Click(object sender, EventArgs e)
      Session["Count"] = Convert.ToInt32(Session["Count"]) + 1;//Set Value to
                                                                      The Session
      Label1.Text = Session["Count"].ToString(); //Get Value from the Sesion
5. Take Label2, Button2, HiddentField1, Set HiddentField1.Value=0
6. Write following code
      protected void Button2 Click(object sender, EventArgs e)
        if (HiddenField1.Value != null)
             try
                 int val = Convert.ToInt32(HiddenField1.Value) + 1;
                 HiddenField1.Value = val.ToString();
                 Label2.Text = val.ToString();
             catch (Exception exc)
                 Response. Write (exc);
```

```
} }
```



Assignment 12) Create sample website for demonstrating use of Profiles/Themes using skin files.

Profiles

1. Add the profile details in the web.config file within the <system.web> element.

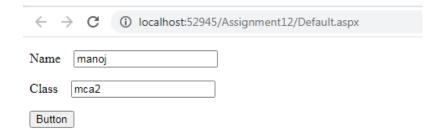
- 2. Add 2 labels and 2 text boxes to take the user input as defined in the profile and add a button for submitting the data.
- 3. Update Page_load to display profile information and Write the following handler for the Submit button, for saving the user data into the profile:

```
using System;
using System.Configuration;
using System.Data;
using System.Linq;
using System.Web;
using System.Web.Security;
using System.Web.UI;
```

```
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System. Web. UI. WebControls. WebParts;
using System.Xml.Ling;
public partial class Default : System.Web.UI.Page
protected void Page Load(object sender, EventArgs e)
  if (!this.IsPostBack)
      ProfileCommon pc = this.Profile.GetProfile(Profile.UserName);
      if (pc != null)
          this.TextBox1.Text = pc.Name;
          this.TextBox2.Text = pc.Class;
  }
protected void Button1 Click(object sender, EventArgs e)
  ProfileCommon pc = this.Profile.GetProfile(Profile.UserName);
  if (pc != null)
      pc.Name = this.TextBox1.Text;
      pc.Class= this.TextBox2.Text;
     pc.Save();
```

4. When the page is executed for the first time, the user needs to enter the information. However, next time the user details would be automatically loaded.

OUTPUT:-



Themes/Skins

- 1.Start->Programs->Visual studio 2008
- 2. Create new web site.
- 3. Add one Theme Folder in your Website.
- i) Right Click > Add New ASP.NET Folder > Choose Theme folder.
- 4. Add one Skin File in your Website.
- ii)Right Click > Add New Item > Skin file.
- 5. Write a following code in Skin File.

```
<asp:Label runat="server" ForeColor="orange"></asp:Label>

<asp:TextBox runat="server" BackColor="orange" ForeColor="black"
BorderColor="Red" BorderStyle="Solid"></asp:TextBox>

<asp:RadioButton runat="server" BackColor="orange"
ForeColor="black" BorderColor="Red"
BorderStyle="Solid"></asp:RadioButton>

<asp:Button runat="server" BackColor="orange" ForeColor="black"
BorderColor="Red" BorderStyle="Solid"></asp:Button>

<asp:TextBox runat="server" skinID="s1" BackColor="Red"
ForeColor="black" BorderColor="Red"
BorderStyle="Solid"></asp:TextBox></asp:TextBox></asp:TextBox></asp:TextBox>
```

6. Apply this skin file in thoruh out the website then **Goto web.config** file and set the Page attribute value give the theme name.

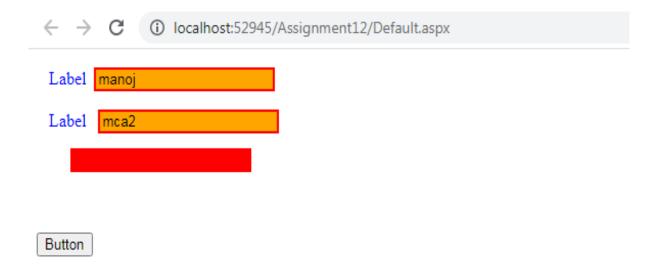
```
<pages theme="Theme1">
```

7. Apply this skin file on page level controls then Goto Source Code set the Page attribute value give the theme name.

```
<%@ Page Theme="Theme1" Language="C#" AutoEventWireup="true"
CodeFile="Default.aspx.cs" Inherits=" Default" %>
```

8. Apply this skin on Particular Control level then Goto Source Code set the skinID.

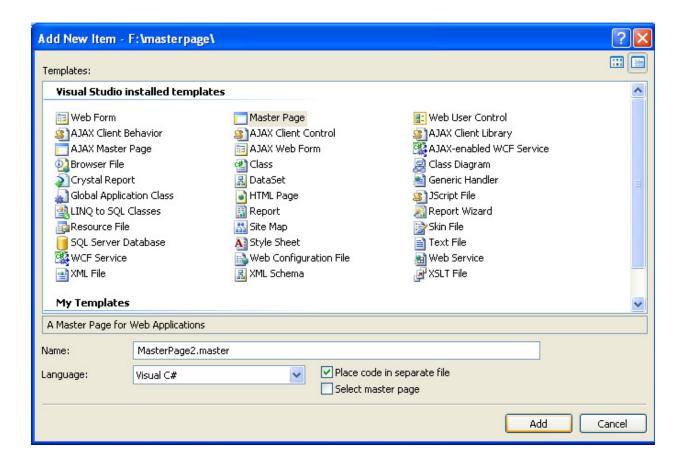
```
<asp:TextBox ID="TextBox3" runat="server"
SkinID="s1"></asp:TextBox>
```



Assignment 13) Demonstrate Master Pages and website navigation controls (sitemap path, treeview, menu) using SiteMap file.

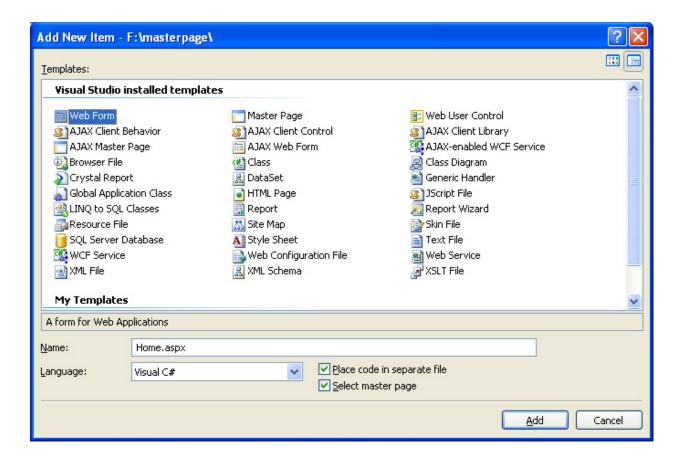
Assignment 14) Demonstrate Properties of website navigation controls.

- 1.Start->Programs->Visual studio 2008
- 2.Create new web site.
- 3.Right click on solution Explorer->Add New Items ->Select MasterPage and add MasterPage.master



- 4.Add Html Table in Master Page.
- 5. Drag and Drop ContentPlaceHolder into Middle Table Cell.
- 6. .Right click on solution Explorer->Add New Items ->Select Web Form and Add Home.aspx

Do not forget to Check Select Master Page CheckBox .



- 7. Similarly add Two More Content Pages Aboutus.aspx and Contactus.aspx
- 8. Add Menu Control in Top Most Cell of Table & Click on Smart tag -> Edit Menu Items and Add 3 menu items(Home, AboutUs, ContactUs). And set the Text and Navigate Url Properties of Menu Items.
- 9. Drag SiteMapDataSource Control from ToolBox and Drop it on Master Page.
- 10. Drag TreeView Control from ToolBox and Drop it on Master Page.
- 11. Write a following Code in SiteMapDataSource Control file.

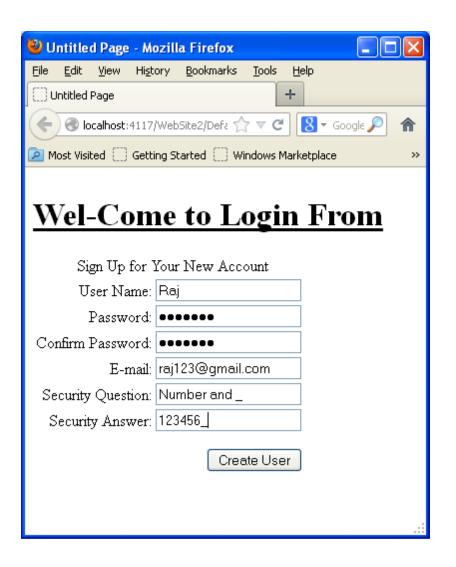
```
<?xml version="1.0" encoding="utf-8" ?>
<siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" >
<siteMapNode url="" title="" description="">
<siteMapNode url="home.aspx" title="HOME" description="" />
<siteMapNode url="aboutus.aspx" title="ABOUT US" description="" />
<siteMapNode url="contact.aspx" title="CONTACT US" description="" />
</siteMapNode>
</siteMapNode></siteMap>
```

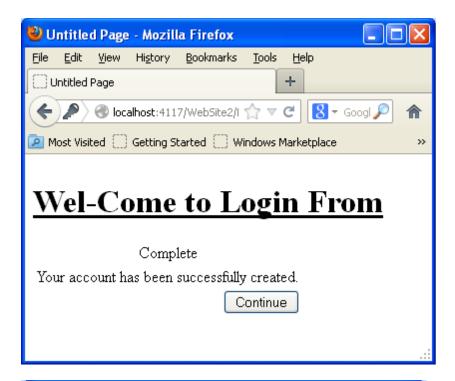
- 12. Click on SmartTag on TreeView Control and Choose the DataSource->SiteMapDataSource1
- 13. Drag SiteMapPath Control from ToolBox and Drop it on Master Page.
- 14. Save Built and Run.

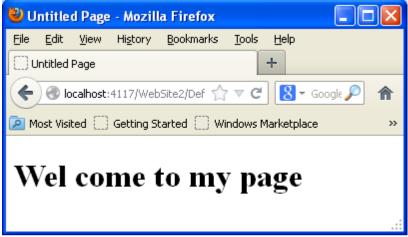


Assignment 15) Demonstrate Authorization/Authentication using Login controls and Roles/Membership/AccessRules

```
1) Create Microsoft Visual Studio 2008
2) Select File->New->WebSite
3) Select ASP.NET Web site template from the Templates pane and name it "UserRoleDemo"
<form id="form1" runat="server">
     
     
<br />
<span class="style1">Wel-Come to Login From</span><br />
<asp:CreateUserWizard ID="CreateUserWizard1" runat="server"</pre>
OnContinueButtonClick="CreateUserWizard1 ContinueButtonClick">
<WizardSteps>
<asp:CreateUserWizardStep runat="server" />
<asp:CompleteWizardStep runat="server" />
</WizardSteps>
</asp:CreateUserWizard>
<br />
</div>
</form>
protected void CreateUserWizard1 ContinueButtonClick(object sender, EventArgs
e)
Response.Redirect("Default2.aspx");
```

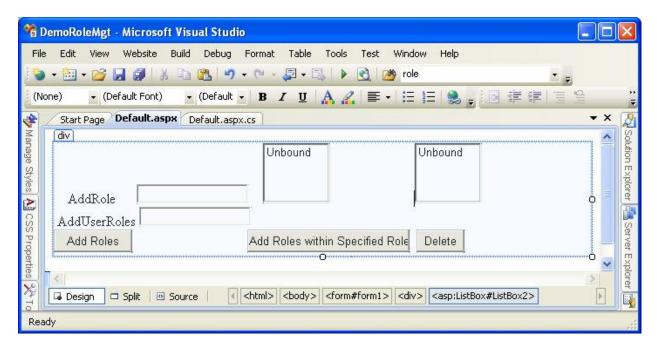






Role Management:-

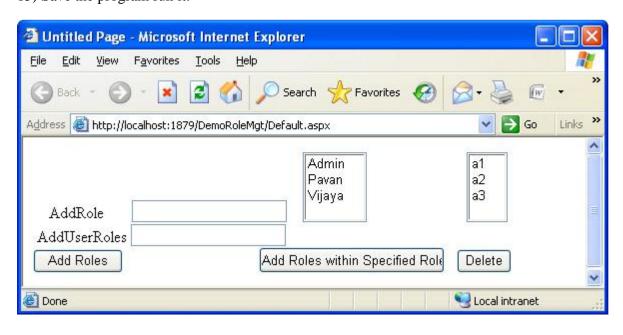
- 7) Create Microsoft Visual Studio 2008
- 8) Select **File->New->WebSite**
- 9) Select ASP.NET Web site template from the Templates pane and name it "UserRoleDemo"
- 10) Select Website from Menu -> ASP.NET configuration
- 11) Go into web browser of ASP.NET configuration & select security & enable it.
- 12) Switch to the Web.Config click on "Ok" Role are enable in your appliction
- 13) Select Default.aspx add following control



14) Write following code on Page_load & buttons click

```
public partial class Default : System.Web.UI.Page
public string str;
protected void Page Load(object sender, EventArgs e)
ListBox1.DataSource = Roles.GetAllRoles();
ListDataBind();
ListBox2.DataSource = Roles.GetUsersInRole("Admin");
ListBox2.DataBind();
protected void Button1 Click(object sender, EventArgs e)
Roles.CreateRole(TextBox1.Text);
ListDataBind();
protected void ListDataBind()
ListBox1.DataSource = Roles.GetAllRoles();
ListBox1.DataBind();
ListBox2.DataSource = Roles.GetUsersInRole("Admin");
ListBox2.DataBind();
protected void Button2 Click(object sender, EventArgs e)
Roles.AddUserToRole(TextBox2.Text, TextBox1.Text);
ListBox2.Items.Add(TextBox2.Text);
ListDataBind();
protected void Button3 Click(object sender, EventArgs e)
Roles.RemoveUserFromRole(TextBox2.Text, TextBox1.Text);
Response.Write("Role is deleted");
37
```

15) Save the program run it.

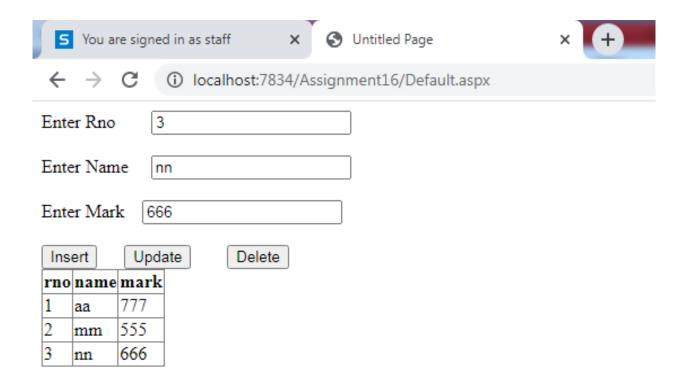


Assignment 16) Demonstrate creation of simple/complex DataReader/DataSet Objects.

- 1. Right Click on App_Data in Solution Explorer
- 2. Add New Item select **SQL Server Database** and give database name
- 3. In Server Explorer right click on Tables, select Add New Table
- 4. Right click on your table and select **Show Table Data** and insert records
- 5. Add 3 TextBoxes , 3 Buttons(INSERT,UPDATE,DELETE) & 1 GridView control to Default.aspx Page
- 6. Add Following Code

```
8. DataReader:-
9. using System.Data;
         using System.Data.SqlClient;
10.
         public partial class Default : System.Web.UI.Page
12.
13.
14.
             SqlConnection con = new SqlConnection("Data
15.
   Source=.\\SQLEXPRESS;AttachDbFilename=I:\\2021-22\\Subjects\\CA-305(B)
  Microsoft .Net Technologies\\CA-LAB-XII (B) Lab on Microsoft .Net
   Technologies \\Assignment16 \\App Data \\Database.mdf; Integrated
   Security=True;User Instance=True");
16.
             SqlDataReader dr;
17.
             protected void Page Load(object sender, EventArgs e)
18.
```

```
if (!IsPostBack)
19.
20.
                     getdata();
21.
             }
22.
            void getdata()
23.
                 SqlCommand cmd = new SqlCommand("select * from student",
24.
  con);
25.
                 con.Open();
26.
                 dr = cmd.ExecuteReader();
27.
                 GridView1.DataSource = dr;
28.
                 GridView1.DataBind();
29.
                 con.Close();
30.
             }
31.
32.
             protected void Button1 Click(object sender, EventArgs e)
33.
                 SqlCommand cmd1 = new SqlCommand("insert into student
  values(" + Convert
         .ToInt32(TextBox1.Text) + ",'" + TextBox2.Text + "'," + Convert
35.
         .ToInt32(TextBox3.Text) + ")", con);
37.
                con.Open();
38.
                 cmd1.ExecuteNonQuery();
39.
                 con.Close();
                 getdata();
40.
41.
             }
42.
             protected void Button2 Click(object sender, EventArgs e)
43.
                 SqlCommand cmd2 = new SqlCommand("Update student set
  name='" + TextBox2.Text + "', mark=" +
        Convert.ToInt32(TextBox3.Text) + "where rno=" +
  Convert.ToInt32(TextBox1.Text), con);
46.
                 con.Open();
47.
                 cmd2.ExecuteNonQuery();
48.
                 con.Close();
49.
                 getdata();
50.
             }
51.
52.
             protected void Button3 Click(object sender, EventArgs e)
53.
54.
                 SqlCommand cmd3 = new SqlCommand("Delete from student
Where rno=" +
55.
        Convert.ToInt32(TextBox1.Text), con);
56.
                 con.Open();
57.
                 cmd3.ExecuteNonQuery();
                 con.Close();
58.
59.
                 getdata();
60.
             }
61.
        }
```

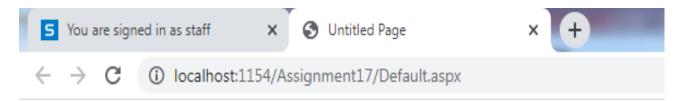


DataSet:-

```
using System.Data;
using System.Data.SqlClient;
public partial class Default : System.Web.UI.Page
    SqlConnection con = new SqlConnection("Data
Source=.\\SQLEXPRESS;AttachDbFilename=I:\\2021-22\\Subjects\\CA-305(B)
Microsoft .Net Technologies\\CA-LAB-XII (B) Lab on Microsoft .Net
Technologies\\Assignment16A\\App Data\\Database.mdf;Integrated
Security=True; User Instance=True");
    protected void Page Load(object sender, EventArgs e)
        if (!IsPostBack)
            getdata();
   void getdata()
    {
       DataSet ds = new DataSet();
       SqlDataAdapter sde = new SqlDataAdapter("select * from student", con);
               sde.Fill(ds);
                GridView1.DataSource = ds;
                GridView1.DataBind();
    }
}
```

Assignment 17) Demonstrate editing in DataTable objects.

```
using System;
using System.Configuration;
using System.Data;
using System.Ling;
using System. Web;
using System. Web. Security;
using System.Web.UI;
using System. Web. UI. Html Controls;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Ling;
public partial class Default : System.Web.UI.Page
    protected void Page Load(object sender, EventArgs e)
        // Initializes a new instance of the System.Data.DataTable class with
the specified table name.
            DataTable tempTable = new DataTable();
           // Add columns in DataTable
            tempTable.Columns.Add("ID");
           tempTable.Columns.Add("NAME");
           // Add New Row in dataTable
         DataRow newrow = tempTable.NewRow();
          newrow[0] = 0;
           newrow[1] = "Avinash";
           tempTable.Rows.Add(newrow);
          // Add Another New Row in dataTable
            newrow = tempTable.NewRow();
            newrow[0] = 1;
           newrow[1] = "Kavita";
           tempTable.Rows.Add(newrow);
           //Now table is ready
           Response.Write("Original Table"+"<br>");
        for (int i = 0; i < tempTable.Rows.Count; i++)</pre>
                Response.Write(tempTable.Rows[i][0].ToString() + "--->" +
tempTable.Rows[i][1].ToString()+"<br>");
            // if you want edit data from DataTable
        Response.Write("Modified Table" + "<br>");
            for (int i = 0; i < tempTable.Rows.Count; i++)</pre>
          if (tempTable.Rows[i][1].ToString() == "Kavita")
                {
                    tempTable.Rows[i][1] = "Ganesh";
          Response.Write(tempTable.Rows[i][0].ToString() + "--->" +
tempTable.Rows[i][1].ToString() + "<br>");
           // if you want delete row from DataTable
            Response.Write("After Deleting row from Table" + "<br>");
            for (int i = 0; i < tempTable.Rows.Count; i++)</pre>
```



Original Table

0--->Avinash

1--->Kavita

Modified Table

0--->Avinash

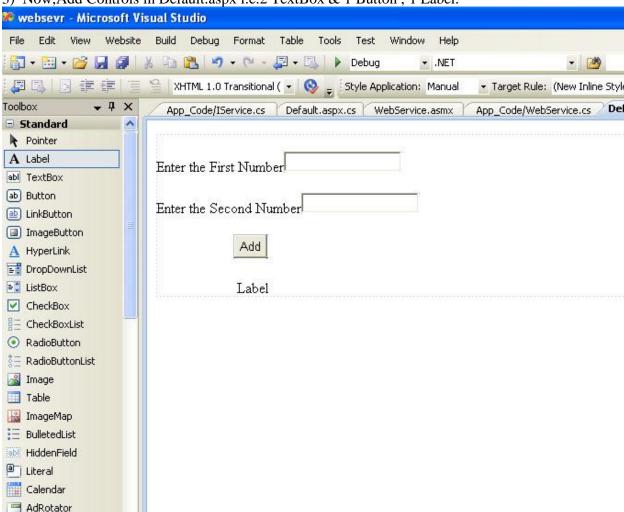
1--->Ganesh

After Deleting row from Table

0--->Avinash

Assignment 18) Demonstrate Web Service hosting, access in ASP.NET

- 1) Create Microsoft Visual Studio 2008
- 2) Select File->New->WebSite
- 3) Now, Add Controls in Default.aspx i.e.2 TextBox & 1 Button, 1 Label.



- 5) Right-click web application's name in the Solution Explorer window and then select the Add New Item option from the context menu
- 6) Select **Web Service** template from the Templates pane and click the Add button.
- 7) Now Code for add() in WebService.cs is as below

```
[WebMethod]
public int add(int a,int b)
{
return a+b;
}
```

- 8) Go to Build Menu, Select Build Web Site and then run this code and test in Browser.
- 9) Right-click web application's name in the Solution Explorer window and then select the **Add Web Reference** option from the context menu.
- 10) Select **Web Services in this Solution**, Give Web Reference name and then Add Reference.
- 11) Give ws name as reference.

12) Below Code write on Button Click in Default.aspx Page is protected void Button1_Click1(object sender, EventArgs e) { int a = Convert.ToInt32(TextBox1.Text); int b = Convert.ToInt32(TextBox2.Text); ws.WebService w = new ws.WebService(); int c= w.add(a, b); Label1.Text = c.ToString(); } 13) Save the program and run it.

OUTPUT-

