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

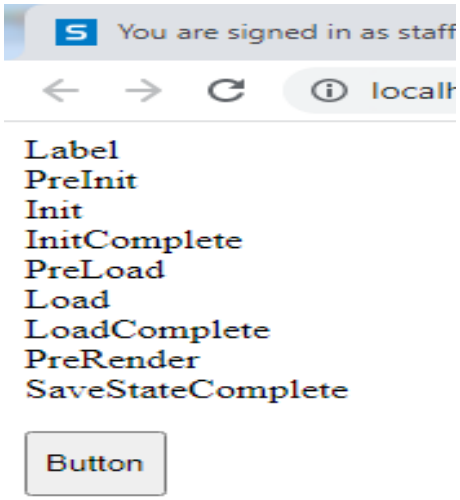
```
using System;
using System.Configuration;
using System.Data;
using System.Linq;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Linq;

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.
        Label1.Text = Label1.Text + "<br/>" + "PreInit";
    }
    protected void Page_Init(object sender, EventArgs e)
    {
        //Work and It will assign the values to label.
        Label1.Text = Label1.Text + "<br/>" + "Init";
    }
    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 = Label1.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.
        Label1.Text = Label1.Text + "<br/>" + "LoadComplete";
    }
    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/>" + "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";
    }

}
```

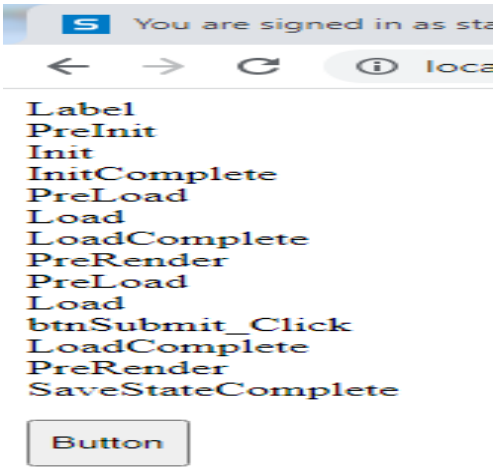
4. Run

OUTPUT:-

Before Button Click



After Button Click



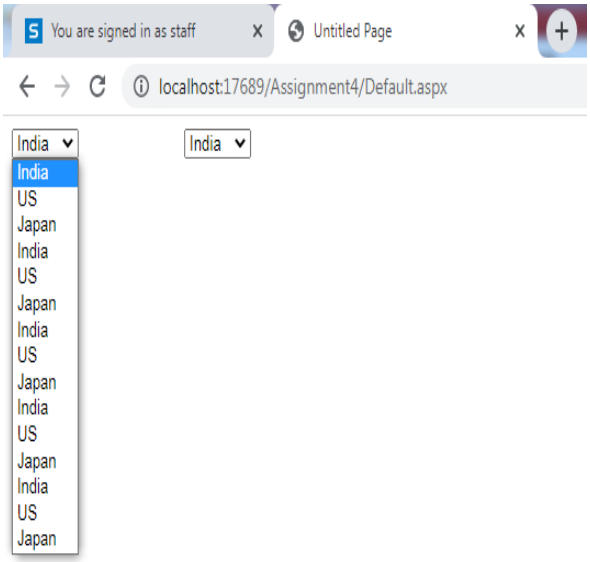
Assignment 4) Demonstrate concept of postback and viewstate using web form server controls of ASP.NET

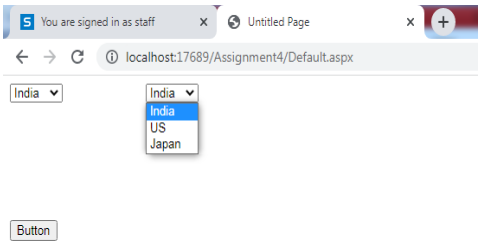
1. File-New Website
2. Take 2 DropDownList2, 2nd having property `EnableViewState="false"`
3. Write Following Code

```
using System;
using System.Configuration;
using System.Data;
using System.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.Linq;

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        bind1();
        bind2();
    }
    public void bind1()
    {
        ListItem l1 = new ListItem("India");
        ListItem l2 = new ListItem("US");
        ListItem l3 = new ListItem("Japan");
        DropDownList1.Items.Add(l1);
        DropDownList1.Items.Add(l2);
        DropDownList1.Items.Add(l3);
    }

    public void bind2()
    {
        ListItem l1 = new ListItem("India");
        ListItem l2 = new ListItem("US");
        ListItem l3 = new ListItem("Japan");
        DropDownList2.Items.Add(l1);
        DropDownList2.Items.Add(l2);
        DropDownList2.Items.Add(l3);
    }

    protected void Button1_Click(object sender, EventArgs e)
    {

    }
}
```

4. Run

OUTPUT:-


You are signed in as staff
Untitled Page
localhost:17689/Assignment4/Default.aspx
India
India
US
Japan
India
US
Japan
India
US
Japan
India
US
Japan
India
US
Japan
India


You are signed in as staff
Untitled Page
localhost:17689/Assignment4/Default.aspx
India
India
India
US
Japan
Button

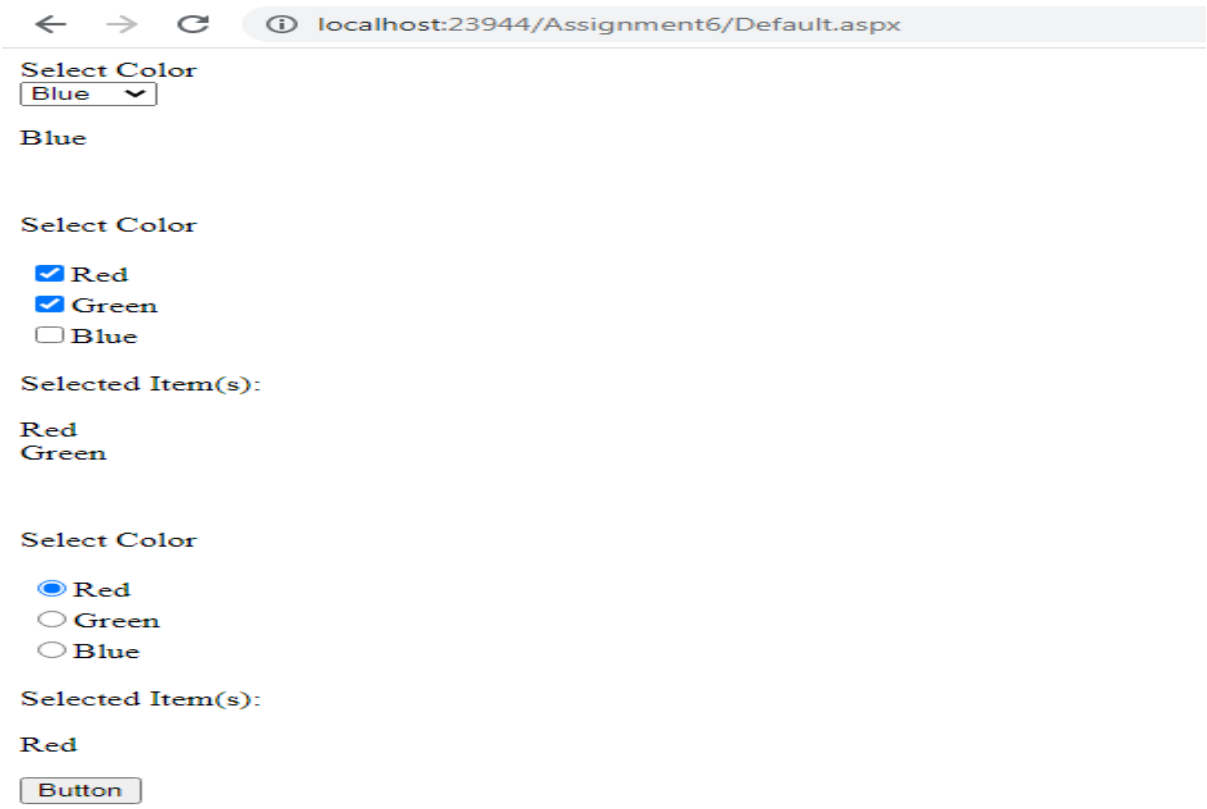
Assignment 6) Demonstrate DropDownList box, CheckButtonList, RadioButtonList controls.

1. File-New Website
2. Write Following Code

```
using System;
using System.Configuration;
using System.Data;
using System.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.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 /><br />";
        for (int i = 0; i < CheckBoxList2.Items.Count; i++)
        {

            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++)
        {

            if (RadioButtonList1.Items[i].Selected)
            {

                Label3.Text += RadioButtonList1.Items[i].Text + "<br
/>";

            }

        }
    }
}
```

3. Run

OUTPUT:-


localhost:23944/Assignment6/Default.aspx
Select Color
Blue
Blue
Select Color
Red
Green
Blue
Selected Item(s):
Red
Green
Select Color
Red
Green
Blue
Selected Item(s):
Red
Button

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

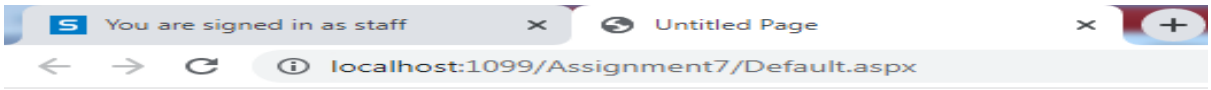
1. Write Following Code in Default.aspx.cs

```
using System.Data;
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","HHHH");
        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>
```

OUTPUT:-

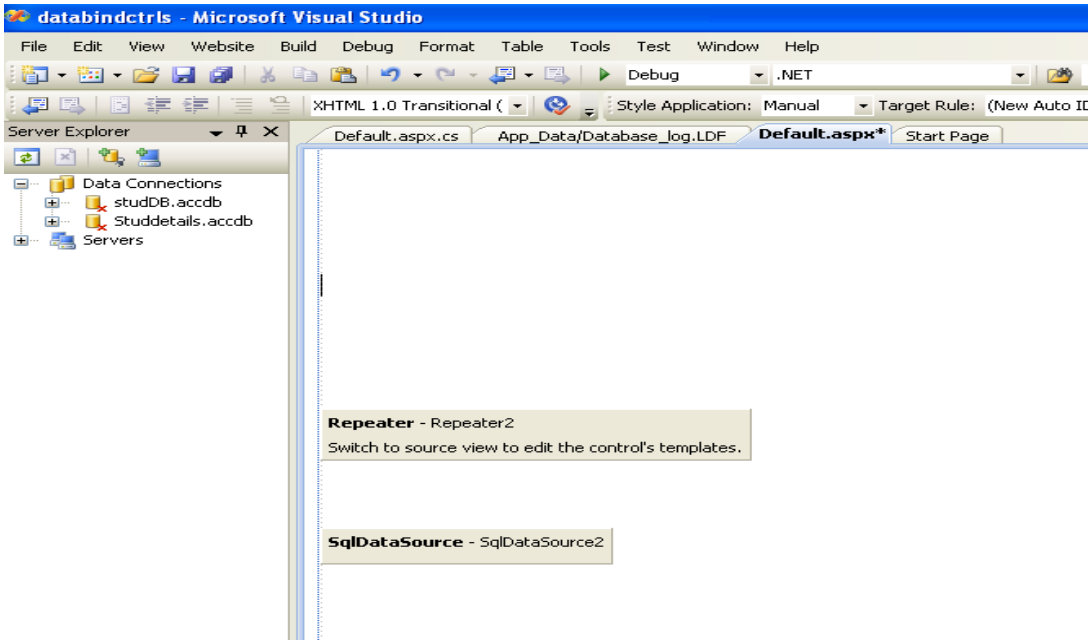


rno	name
1	a
2	b
3	c
4	d
5	e

Item
AAAA
BBBB
CCCC

Roll No	Name
4	GGGG
5	HHHH
6	IIII
7	JJJJ

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

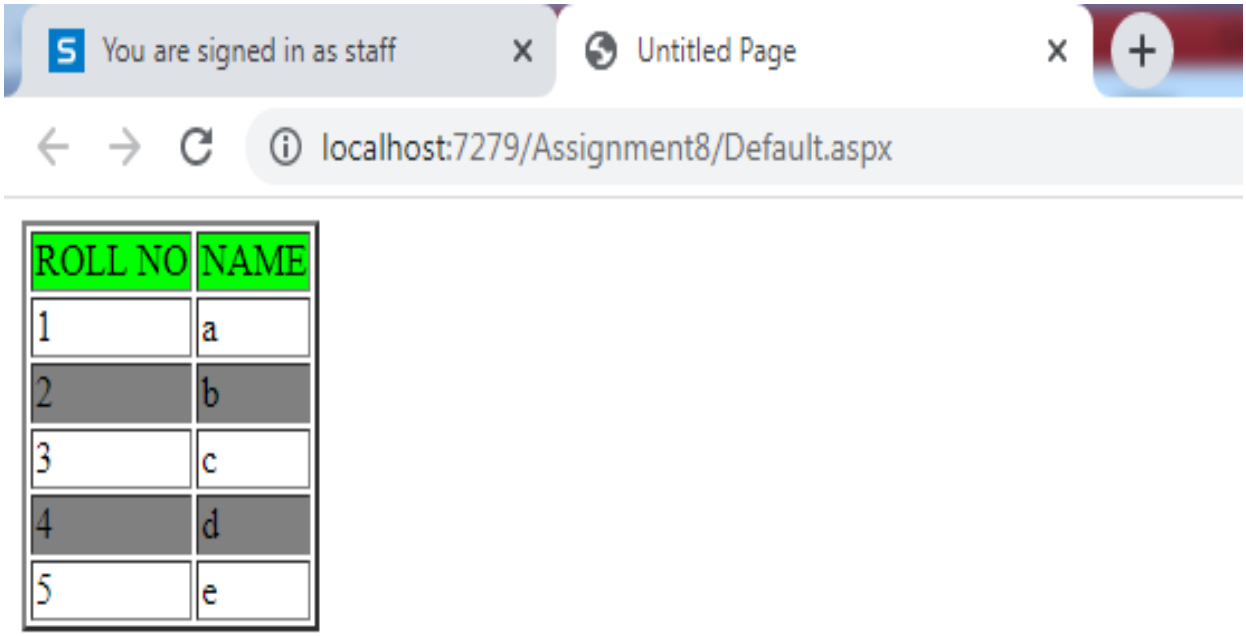
1. Right Click on **App_Data** in **Solution Explorer**
2. Add New Item select **SQL Server Database** and give database name
3. In **Server Explorer** right click on **Tables,** select **Add New Table**
4. Right click on your table and select **Show Table Data** and insert records
5. Take **GridView** from **Data** click on **Choose Data Source, Database,** select your database/table/fields
6. Click on **Test Query** and **Finish**
7. 

Add Following code in Source view

```
<table border =2>
<asp:Repeater ID="Repeater1" runat="server"
DataSourceID="SqlDataSource1">
<HeaderTemplate >
<tr ><td style ="background-color:Lime ;">ROLL NO</td>
<td style ="background-color:Lime ;">NAME</td></tr>
</HeaderTemplate>
<ItemTemplate >
<tr><td><%#Eval("rno") %></td>
<td><%#Eval("name") %></td></tr></ItemTemplate>
<AlternatingItemTemplate >
<tr><td style ="background-color :Gray ;"><%#Eval("rno") %></td>
<td style ="background-color :Gray;"><%#Eval("name")%> </td></tr>
</AlternatingItemTemplate>
   </asp:Repeater> </table>
```

8.Save , BUILT & RUN .

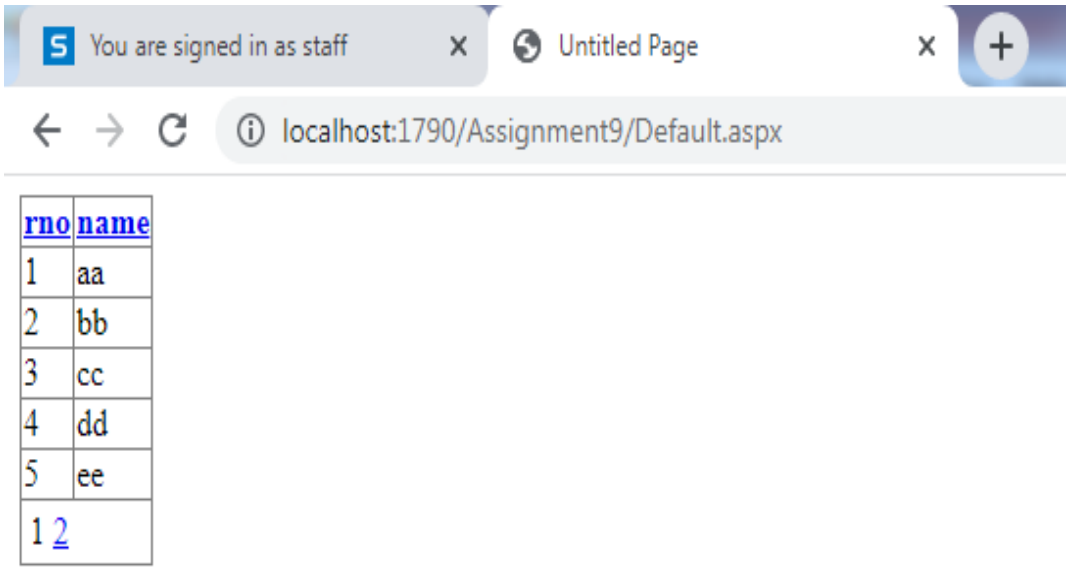
OUTPUT:-


You are signed in as staff
Untitled Page
localhost:7279/Assignment8/Default.aspx
ROLL NO
NAME
1
a
2
b
3
c
4
d
5
e

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

OUTPUT:-



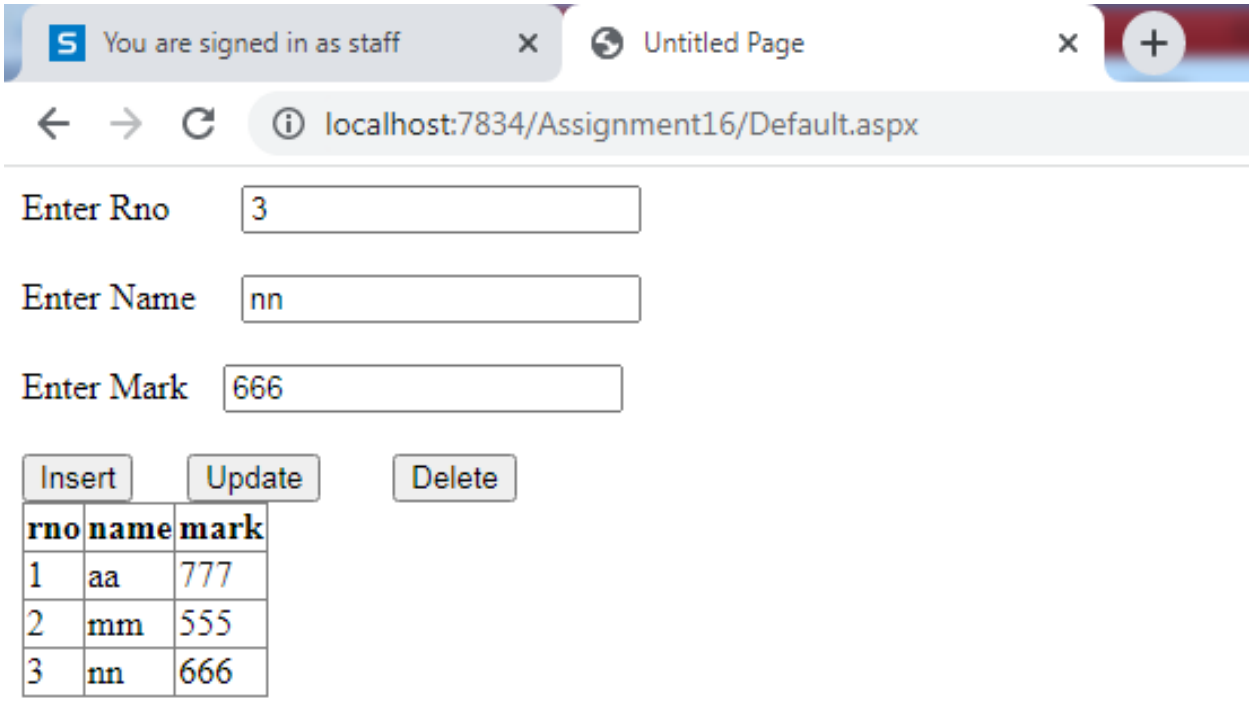
Assignment 16) Demonstrate creation of simple/complex DataReader/DataSet Objects.

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
7.
8. **DataReader:-**

```
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\\Assignment16\\App_Data\\Database.mdf;Integrated Security=True;User Instance=True");
          SqlDataReader dr;
          protected void Page_Load(object sender, EventArgs e)
          {
              if (!IsPostBack)
                  getdata();
          }
          void getdata()
          {
              SqlCommand cmd = new SqlCommand("select * from student", con);
              con.Open();
              dr = cmd.ExecuteReader();
              GridView1.DataSource = dr;
              GridView1.DataBind();
              con.Close();
          }

          protected void Button1_Click(object sender, EventArgs e)
          {
              SqlCommand cmd1 = new SqlCommand("insert into student values(" + Convert
      .ToInt32(TextBox1.Text) + ",'" + TextBox2.Text + "'," + Convert
      .ToInt32(TextBox3.Text) + ")", con);
              con.Open();
              cmd1.ExecuteNonQuery();
              con.Close();
              getdata();
          }
          protected void Button2_Click(object sender, EventArgs e)
          {
              SqlCommand cmd2 = new SqlCommand("Update student set name='" + TextBox2.Text + "',mark=" +
      Convert.ToInt32(TextBox3.Text) + "where rno=" + Convert.ToInt32(TextBox1.Text), con);
              con.Open();
              cmd2.ExecuteNonQuery();
              con.Close();
```

```
            getdata();
        }

        protected void Button3_Click(object sender, EventArgs e)
        {
            SqlCommand cmd3 = new SqlCommand("Delete from student Where rno=" +
    Convert.ToInt32(TextBox1.Text), con);
            con.Open();
            cmd3.ExecuteNonQuery();
            con.Close();
            getdata();
        }
    }
```

OUTPUT:-



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();

    }
}
```