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## **ASSIGNMENT - 2 DATABASE PROGRAMMING IN ASP.NET**

1. Write a program to demonstrate insert and select operation in connected architecture with ADO.NET objects.

**Aim :** Write a program to demonstrate insert and select operation in connected architecture with ADO.NET objects.

**Objective :** To demonstrate insert and select operation in connected architecture with ADO.NET objects.

**Code :**

## WebForm1.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="Assignment2_1.WebForm1" %>
```

```
<!DOCTYPE html>
```

&lt;html xmlns="http://www.w3.org/1999/xhtml"&gt;

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

&lt;title&gt;&lt;/title&gt;

&lt;/head&gt;

&lt;body&gt;

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

<div>

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

[illegible]

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

</div>

```
<asp:Label ID="Label2" runat="server" Text="Enter Employee Salary"></asp:Label>
```

[illegible]

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

$\langle p \rangle$

```
<asp:Button ID="Button1" runat="server" OnClick="Button1_Click"
Text="SAVE" />
```

[illegible][illegible]

```
<asp:Button ID="Button2" runat="server" Text="CANCEL" />
```

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

&lt;/asp:GridView&gt;

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</body>

</html>

### **WebForm1.aspx.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;

namespace Assignment2_1
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        SqlConnection connection = null;
        protected void Page_Load(object sender, EventArgs e)
        {
            connection = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=D:\Muskan_AWT\Assignment
2_1\App_Data\Employee.mdf;Integrated Security=True");
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            connection.Open();
            SqlCommand cmd = new SqlCommand("insert into
Employee_Detail(Name,Salary) " +
            "values('" + TextBox1.Text + "','" +
            int.Parse(TextBox2.Text) + ")", connection);
            int result = cmd.ExecuteNonQuery();
            if (result > 0) {
                Response.Write("Data Saved Successfully");
                SqlCommand cmd1 = new SqlCommand("select * from
Employee_Detail",connection);
                SqlDataReader dr = cmd1.ExecuteReader();
                GridView1.DataSource = dr;
                GridView1.DataBind();
                TextBox1.Text = string.Empty;
                TextBox2.Text = string.Empty;
            }
        }
    }
}
```

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dbo.Employee\_detail [Design] WebForm1.aspx.cs WebForm1.aspx

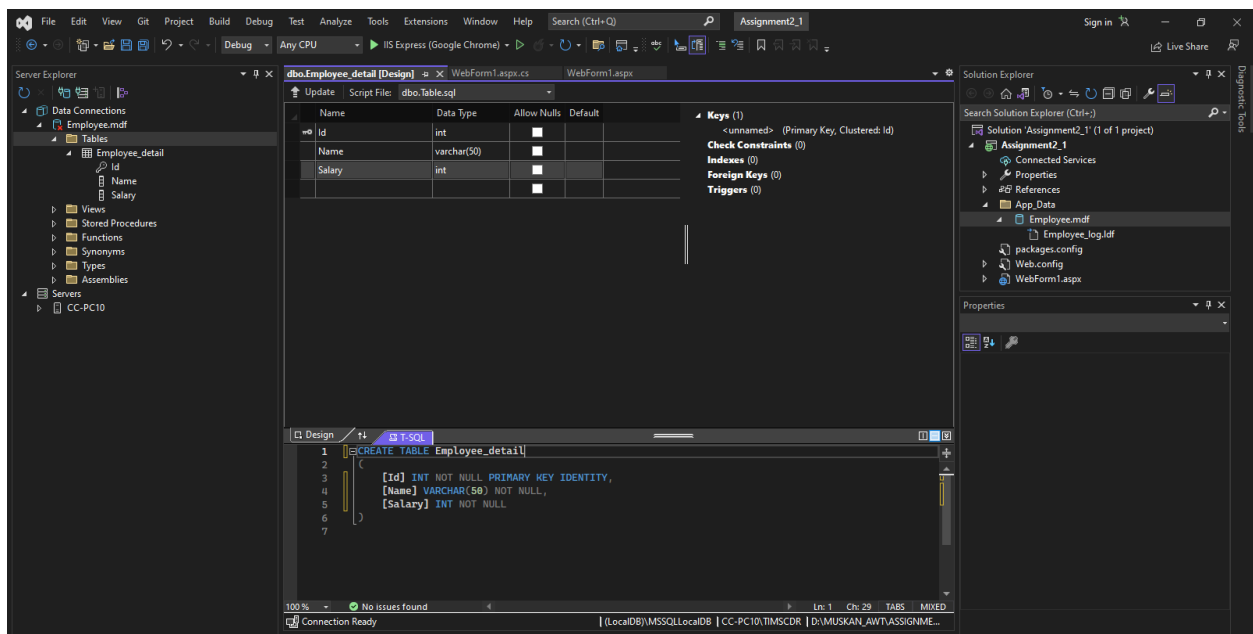
body

Enter Employee Name

Enter Employee Salary

Column0	Column1	Column2
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc

## Employee.mdf



Output :

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Enter Employee Name Muskan

Enter Employee Salary 50000

SAVE CANCEL




Data Saved Successfully

Enter Employee Name

Enter Employee Salary

SAVE CANCEL

Id	Name	Salary
1	Muskan	50000



Enter Employee Name Neelu

Enter Employee Salary 50000

SAVE CANCEL



Data Saved Successfully

Enter Employee Name

Enter Employee Salary

SAVE CANCEL

Id	Name	Salary
1	Muskan	50000
2	Neelu	50000

2. Write a program to demonstrate update and delete operation in connected architecture using ADO.NET objects.

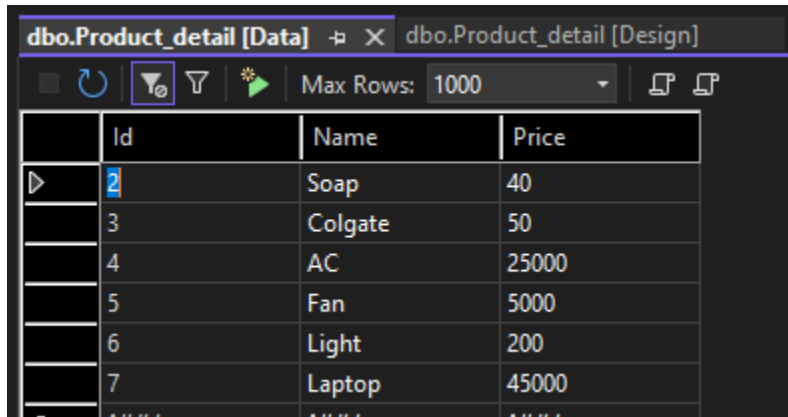
**Aim :** Write a program to demonstrate update and delete operation in connected architecture using ADO.NET objects.

**Objective :** To demonstrate update and delete operation in connected architecture using ADO.NET objects.

**Code :**

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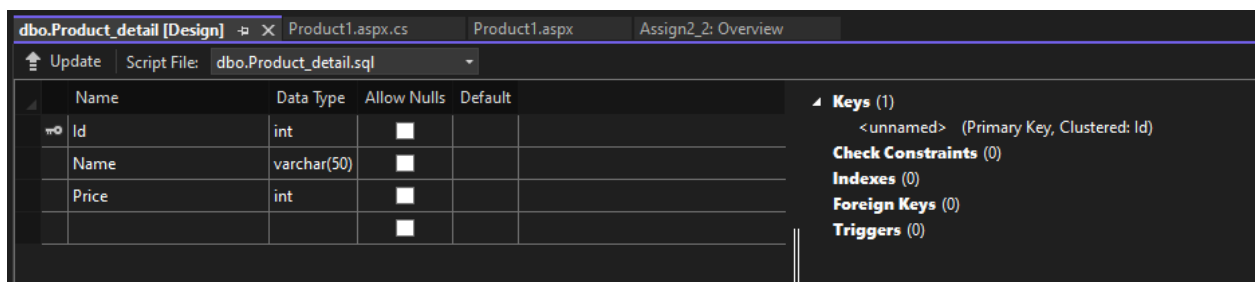
### Product.mdf:



The screenshot shows the 'dbo.Product\_detail [Data]' view in SQL Server Enterprise Manager. The table has four columns: Id, Name, and Price. The data is as follows:

	Id	Name	Price
▶	2	Soap	40
	3	Colgate	50
	4	AC	25000
	5	Fan	5000
	6	Light	200
	7	Laptop	45000

### Product\_dao\_Design:

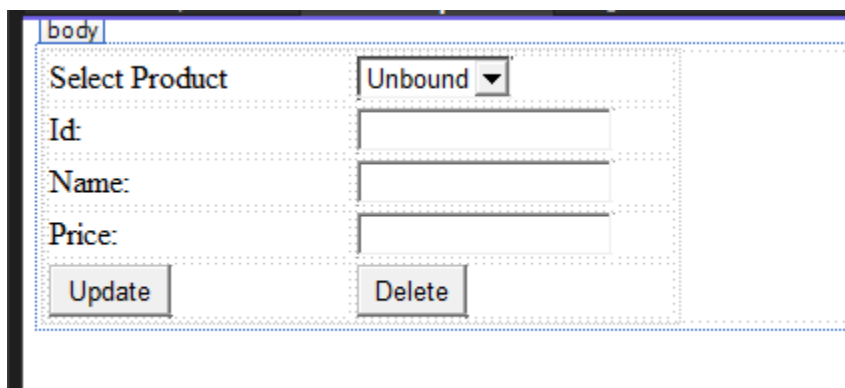


The screenshot shows the 'dbo.Product\_detail [Design]' view in SQL Server Enterprise Manager. The table has three columns: Id, Name, and Price. The data type, allow nulls, and default values are as follows:

Name	Data Type	Allow Nulls	Default
Id	int	<input type="checkbox"/>	
Name	varchar(50)	<input type="checkbox"/>	
Price	int	<input type="checkbox"/>	

On the right side, the 'Keys' section shows a primary key for the 'Id' column. The 'Check Constraints', 'Indexes', 'Foreign Keys', and 'Triggers' sections are all empty.

### Product.aspx:



The screenshot shows the 'body' of the Product.aspx web form. It contains a 'Select Product' dropdown menu with 'Unbound' selected. Below the dropdown are three text boxes for 'Id:', 'Name:', and 'Price:'. At the bottom are two buttons: 'Update' and 'Delete'.

### Product.aspx.cs:

```
using System;  
using System.Collections.Generic;  
using System.Linq;
```

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```
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;

namespace Assign2_2
{
    public partial class Product1 : System.Web.UI.Page
    {
        SqlConnection conn= new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\TIMSCDR\source\re
pos\Assign2_2\Assign2_2\App_Data\Product.mdf;Integrated Security=True");

        protected void Page_Load(object sender, EventArgs e)
        {
            conn.Open();
            if (!Page.IsPostBack)
            {
                BindData();
            }
        }

        private void BindData()
        {
            SqlCommand cmd = new SqlCommand("Select * from Product_detail",conn);
            SqlDataReader dr= cmd.ExecuteReader();
            DropDownList1.DataSource = dr;
            DropDownList1.DataTextField = "Name";
            DropDownList1.DataValueField = "Id";
            DropDownList1.DataBind();
        }
    }
}
```

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```
}
```

```
protected void Button1_Click(object sender, EventArgs e)
```

```
{
```

```
    SqlCommand cmd = new SqlCommand(" Update Product_detail set  
Name='"+TextBox2.Text+ " ", Price= "+int.Parse(TextBox3.Text) +" where Id= "  
+int.Parse(TextBox1.Text), conn);
```

```
    cmd.ExecuteNonQuery();
```

```
    TextBox1.Text = " ";
```

```
    TextBox2.Text = " ";
```

```
    TextBox3.Text = " ";
```

```
    BindData();
```

```
}
```

```
protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
```

```
{
```

```
    SqlCommand cmd = new SqlCommand("Select * from Product_detail where  
Id="+int.Parse(DropDownList1.SelectedValue.ToString()), conn);
```

```
    SqlDataReader dr = cmd.ExecuteReader();
```

```
    dr.Read();
```

```
    TextBox1.Text = dr[0].ToString();
```

```
    TextBox2.Text = dr[1].ToString();
```

```
    TextBox3.Text = dr[2].ToString();
```

```
}
```

```
protected void Button2_Click(object sender, EventArgs e)
```

```
{
```

```
    SqlCommand cmd = new SqlCommand("Delete from Product_detail where Id= "  
+ int.Parse(TextBox1.Text), conn);
```

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```
        cmd.ExecuteNonQuery();  
        TextBox1.Text = " ";  
        TextBox2.Text = " ";  
        TextBox3.Text = " ";  
        BindData();  
  
    }  
}  
}
```

### Output :

Colgate Update:

Select Product	Colgate ▼
Id:	3
Name:	Colgate
Price:	70
<input type="button" value="Update"/>	<input type="button" value="Delete"/>

Select Product	Colgate ▼
Id:	3
Name:	Colgate
Price:	100
<input type="button" value="Update"/>	<input type="button" value="Delete"/>

Colgate Deleted:



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Select Product

Id:

Name:

Price:

Soap ▼

Soap

AC

Fan

Light

Laptop

3. Write a program to demonstrate insert and select, update and delete operation in disconnected architecture with ADO.NET objects.

**Aim :**Write a program to demonstrate insert and select operation in disconnected architecture with ADO.NET objects.

**Objective :** To demonstrate insert and select, update and delete operation in disconnected architecture with ADO.NET objects.

**Code :**

**Webform1.aspx:**

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The screenshot shows a web application with a title bar containing three tabs: 'Stored\_procedure.aspx.cs', 'Stored\_procedure.aspx', and 'WebForm1.aspx'. The 'WebForm1.aspx' tab is active. The page content is divided into two main sections. The top section is a form with a label 'Select Product' followed by a dropdown menu showing 'Unbound'. Below this are three text input fields labeled 'Id:', 'Name:', and 'Price:'. At the bottom of the form are four buttons: 'Insert', 'Clear', 'Update', and 'Delete'. The bottom section of the page contains a table with three columns: 'Column0', 'Column1', and 'Column2'. Each column contains five rows of the value 'abc'.

Column0	Column1	Column2
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc

### Webform.aspx.cs:

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

```
namespace Assign2_2
```

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

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```
static DataSet ds;
static SqlDataAdapter da;
static SqlConnection conn;
protected void Page_Load(object sender, EventArgs e)
{
    if (!IsPostBack)
    {
        conn = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\TIMSCDR\source\re
pos\Assign2_2\Assign2_2\App_Data\Product.mdf;Integrated Security=True");
        da = new SqlDataAdapter("select * from Product_detail", conn);
        SqlCommandBuilder cb = new SqlCommandBuilder(da);
        ds = new DataSet();
        da.Fill(ds, "Product_detail");
        DropDownList1.DataSource = ds.Tables[0];
        DropDownList1.DataTextField = "Name";
        DropDownList1.DataValueField = "Id";
        DropDownList1.DataBind();
        GridView1.DataSource = ds;
        GridView1.DataBind();
    }
}
```

```
protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
{
    foreach (DataRow dr in ds.Tables[0].Rows)
    {
        if (dr["Id"].ToString() == DropDownList1.SelectedValue.ToString())
        {

```

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```
        TextBox1.Text = dr["Id"].ToString();
        TextBox2.Text = dr["Name"].ToString();
        TextBox3.Text= dr["Price"].ToString();

    }
}

protected void Button5_Click(object sender, EventArgs e)
{
    foreach (DataRow dr in ds.Tables[0].Rows)
    {
        if (dr["Id"].ToString() == TextBox1.Text)
        {
            dr["Name"] = TextBox2.Text;
            dr["Price"] = TextBox3.Text;

        }
    }
}

da.Update(ds.Tables[0]);
da = new SqlDataAdapter("select * from Product_detail", conn);
SqlCommandBuilder cb = new SqlCommandBuilder(da);
ds = new DataSet();
da.Fill(ds, "Product");
DropDownList1.DataSource = ds.Tables[0];
DropDownList1.DataTextField = "Name";
DropDownList1.DataValueField = "Id";
DropDownList1.DataBind();
```

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```
        TextBox1.Text = " ";
        TextBox1.Text = " ";
        TextBox2.Text = " ";
    }

protected void Button6_Click(object sender, EventArgs e)
{
    foreach (DataRow dr in ds.Tables[0].Rows)
    {
        if (dr["Id"].ToString() == TextBox1.Text)
        {
            dr.Delete();

        }
    }

    da.Update(ds.Tables[0]);
    da = new SqlDataAdapter("select * from Product_detail", conn);
    SqlCommandBuilder cb = new SqlCommandBuilder(da);
    ds = new DataSet();
    da.Fill(ds, "Product");
    DropDownList1.DataSource = ds.Tables[0];
    DropDownList1.DataTextField = "Name";
    DropDownList1.DataValueField = "Id";
    DropDownList1.DataBind();
    TextBox1.Text = " ";
    TextBox1.Text = " ";
    TextBox2.Text = " ";
}

protected void Button7_Click(object sender, EventArgs e)
```

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```
{
    DataRow dr = ds.Tables[0].NewRow();
    dr["Name"] = TextBox2.Text;
    dr["Price"] = TextBox3.Text;
    ds.Tables[0].Rows.Add(dr);
    da.Update(ds.Tables[0]);
    da = new SqlDataAdapter("select * from Product_detail", conn);
    SqlCommandBuilder cb = new SqlCommandBuilder(da);
    ds = new DataSet();
    da.Fill(ds, "Product");
    DropDownList1.DataSource = ds.Tables[0];
    DropDownList1.DataTextField = "Name";
    DropDownList1.DataValueField = "Id";
    DropDownList1.DataBind();
    TextBox1.Text = " ";
    TextBox1.Text = " ";
    TextBox2.Text = " ";
}

protected void Button8_Click(object sender, EventArgs e)
{
    TextBox1.Text = " ";
    TextBox3.Text = " ";
    TextBox2.Text = " ";
}

protected void GridView1_SelectedIndexChanged(object sender, EventArgs e)
{
}
}
```

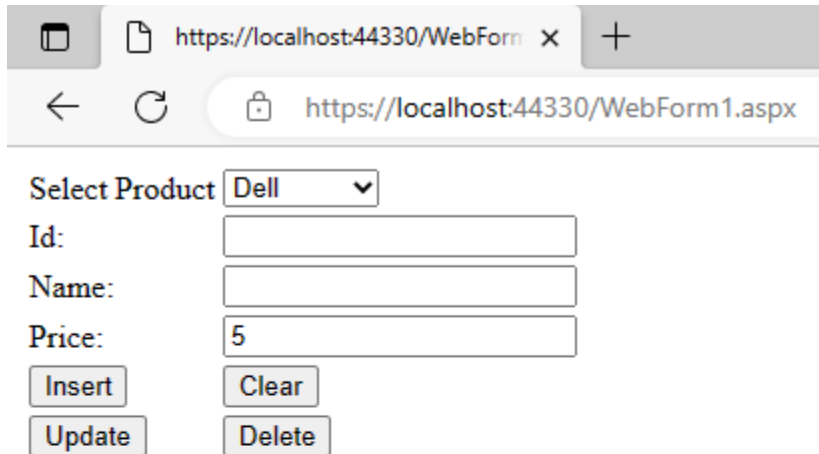
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}

**Output :**

**Insert Command:**



Select Product Dell ▼

Id:

Name:

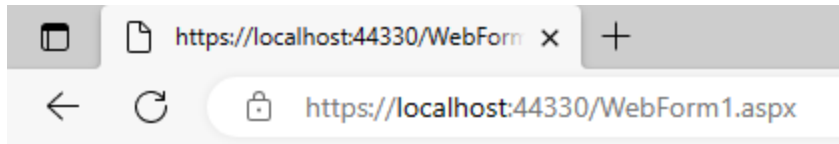
Price:

Id	Name	Price
7	Dell	80000
10	Fan	500
11	Ring	212
12	Mouse	200
13	AC222	12000
14	Keyboard	120
16	Lux	30
17	Table	500
19	Adii	5

**Update Command:**

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Select Product

Id:

Name:

Price:

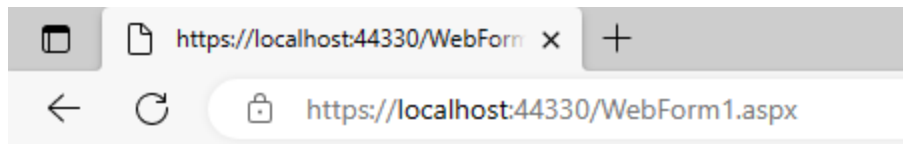
Id	Name	Price
7	Dell	80000
10	Fan	500
11	Ring	212
12	Light	200
13	AC222	12000
14	Keyboard	120
16	Lux	30
17	Table	500

**Delete Command:**



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Select Product Dell ▼

Id:

Name:

Price:

Id	Name	Price
7	Dell	80000
10	Fan	500
11	Ring	212
12	Mouse	200
13	AC222	12000
14	Keyboard	120
16	Lux	30
17	Table	500

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Select Product

Id:

Name:

Price:

Id	Name	Price
7	Dell	80000
10	Fan	500
11	Ring	212
12	Mouse	200
13	AC222	12000
14	Keyboard	120
16	Lux	30
17	Table	500

4. Write a program to demonstrate insert and select operation using stored procedure.
5. Write a program to demonstrate delete and update operation using stored procedure.

**Aim :**

**Objective :** To demonstrate insert, select ,delete and update operation using stored procedure.

**Theory :**

**Code :**

**Stored\_procedure.aspx:**

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Stored\_procedure.aspx WebForm7.aspx

body

Name :  Unbound ▼

Percent:

Insert Update Delete

Column0	Column1	Column2
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc

### Stored\_procedure.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Runtime.Remoting.Messaging;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace Assign2_2
{
    public partial class Stored_procedure : System.Web.UI.Page
    {
        string cs = @"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\TIMSCDR\source\re
pos\Assign2_2\Assign2_2\App_Data\Product.mdf;Integrated Security=True";

        SqlConnection con = null;

        public void FillData()
```

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```
{
    SqlCommand cmd = new SqlCommand("Select_Data", con);
    SqlDataReader dr = cmd.ExecuteReader();
    DropDownList1.DataSource = dr;
    DropDownList1.DataValueField = "Name";
    DropDownList1.DataValueField = "Id";
    DropDownList1.DataBind();
    dr.Close();
    SqlCommand cmd1 = new SqlCommand("Select_Data", con);
    SqlDataReader dr1 = cmd.ExecuteReader();
    GridView1.DataSource = dr1;
    GridView1.DataBind();
}

protected void Page_Load(object sender, EventArgs e)
{
    con = new SqlConnection(cs); con.Open();
    if (!Page.IsPostBack)
    {
        FillData();
    }
}

protected void Button1_Click(object sender, EventArgs e)
{
    SqlCommand c = new SqlCommand("Insert_Data", con);
    c.CommandType = System.Data.CommandType.StoredProcedure;
    c.Parameters.AddWithValue("@name", TextBox1.Text);
    c.Parameters.AddWithValue("@price", TextBox2.Text);
    int res = c.ExecuteNonQuery();
    if (res != 0)
    {

```

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```
        FillData();
    }

}

protected void Button2_Click(object sender, EventArgs e)
{
    SqlCommand c = new SqlCommand("Update_Data", con);
    c.CommandType = System.Data.CommandType.StoredProcedure;
    c.Parameters.AddWithValue("id", DropDownList1.SelectedItem.Value);
    c.Parameters.AddWithValue("name", TextBox1.Text);
    c.Parameters.AddWithValue("price", TextBox2.Text);
    int res = c.ExecuteNonQuery();
    if (res != 0)
    {
        FillData();
    }
}

protected void Button3_Click(object sender, EventArgs e)
{
    int id1 =int.Parse(DropDownList1.SelectedItem.Value);
    SqlCommand c = new SqlCommand("Delete_Data", con);
    c.CommandType = System.Data.CommandType.StoredProcedure;
    c.Parameters.AddWithValue("id",id1);
    int res = c.ExecuteNonQuery();
    if (res != 0)
    {
```

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```
        FillData();
    }
}

protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
{
    int id1 = int.Parse(DropDownList1.SelectedItem.Value);
    SqlCommand cmd = new SqlCommand("Select_By_Id", con);

    cmd.CommandType = System.Data.CommandType.StoredProcedure;
    cmd.Parameters.AddWithValue("Id", id1);
    SqlDataReader reader = cmd.ExecuteReader();
    if (reader.HasRows)
    {
        while (reader.Read())
        {
            TextBox1.Text = reader[1].ToString();
            TextBox2.Text = reader[2].ToString();
        }
    }
}
}
```

**Output :**

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https://localhost:44330/Stored\_p x

+

←

↻

https://localhost:44330/Stored\_procedure.aspx

Name :

5 ▾

Percent:

Insert

Update

Delete

Id	Name	Price
5	Fan	5000
6	Light	200
7	Laptop	45000
10	Fan	500
11	Light	20
12	Light	200
13	AC	12000
14	Keyboard	120
15	CPU	12000

**Insert Command:**

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Name :  5 ▼

Percent:

Id	Name	Price
5	Fan	5000
6	Light	200
7	Laptop	45000
10	Fan	500
11	Light	20
12	Light	200
13	AC	12000
14	Keyboard	120
16	Lux	30

6. Write a program to display all products in the drop down list and after choosing the product it will display detail in gridview control.

**Aim :** Write a program to display all products in the drop down list and after choosing the product it will display detail in gridview control.

**Objective :** To display all products in the drop down list and after choosing the product it will display detail in gridview control.

**Theory :**

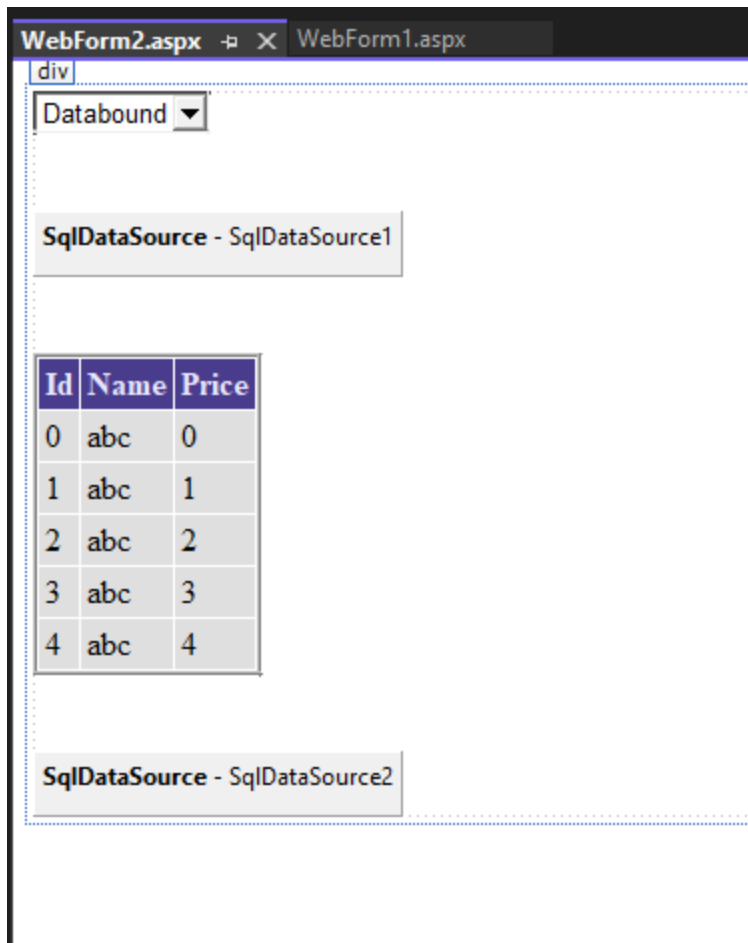
**Code :**

**Webform2.aspx design:**



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### Webform1.aspx code:

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"
Inherits="Assign2_2.WebForm2" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title></title>
```

```
</head>
```

```
<body>
```

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

```
<div>
```

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```
<asp:DropDownList ID="DropDownList1" runat="server" AutoPostBack="True"
DataSourceID="SqlDataSource1" DataTextField="Name" DataValueField="Id">
    <asp:ListItem></asp:ListItem>
</asp:DropDownList>
<br />
<br />
<asp:SqlDataSource          ID="SqlDataSource1"          runat="server"
ConnectionString="<%= $          ConnectionStrings:ConnectionString          %>"
SelectCommand="SELECT * FROM [Product_detail]"></asp:SqlDataSource>
<br />
<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
BackColor="White" BorderColor="White" BorderStyle="Ridge" BorderWidth="2px"
CellPadding="3"          CellSpacing="1"          DataKeyNames="Id"
DataSourceID="SqlDataSource2" GridLines="None">
    <Columns>
        <asp:BoundField DataField="Id" HeaderText="Id" InsertVisible="False"
ReadOnly="True" SortExpression="Id" />
        <asp:BoundField          DataField="Name"          HeaderText="Name"
SortExpression="Name" />
        <asp:BoundField          DataField="Price"          HeaderText="Price"
SortExpression="Price" />
    </Columns>
    <FooterStyle BackColor="#C6C3C6" ForeColor="Black" />
    <HeaderStyle          BackColor="#4A3C8C"          Font-Bold="True"
ForeColor="#E7E7FF" />
    <PagerStyle          BackColor="#C6C3C6"          ForeColor="Black"
HorizontalAlign="Right" />
    <RowStyle BackColor="#DEDFDE" ForeColor="Black" />
    <SelectedRowStyle          BackColor="#9471DE"          Font-Bold="True"
ForeColor="White" />
    <SortedAscendingCellStyle BackColor="#F1F1F1" />
```

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```
<SortedAscendingHeaderStyle BackColor="#594B9C" />
<SortedDescendingCellStyle BackColor="#CAC9C9" />
<SortedDescendingHeaderStyle BackColor="#33276A" />
</asp:GridView>
<br />
<asp:SqlDataSource          ID="SqlDataSource2"          runat="server"
ConnectionString="<%%$          ConnectionStrings:ConnectionString          %>"
SelectCommand="SELECT * FROM [Product_detail] WHERE ([Id] = @Id)">
    <SelectParameters>
        <asp:ControlParameter      ControlID="DropDownList1"      Name="Id"
PropertyName="SelectedValue" Type="Int32" />
    </SelectParameters>
</asp:SqlDataSource>
</div>
</form>
</body>
</html>
```

**Output :**

---

Soap ▼

Id	Name	Price
2	Soap	40

7. Write a program to select employee name from first page and display information on the second page (use query string parameter)

Name: Rutvik Redkar

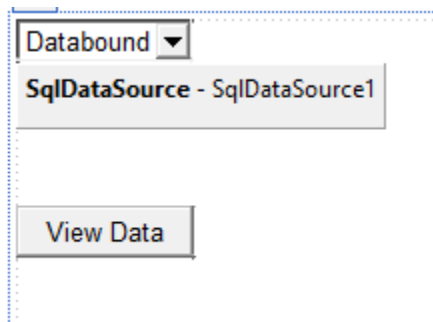
Roll no: 90

**Aim :** Write a program to select employee name from first page and display information on the second page (use query string parameter)

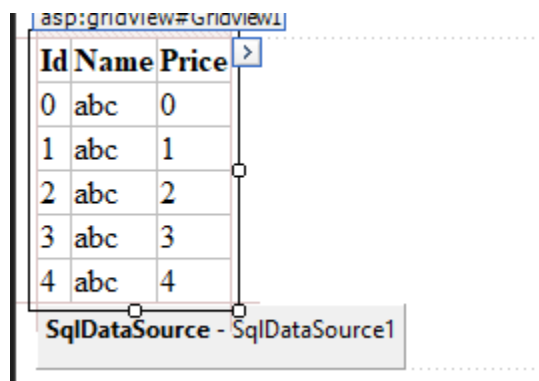
**Objective :** To select employee name from first page and display information on the second page (use query string parameter)

**Code :**

**Webform3.aspx design:**



**Webform4.aspx design :**



**Webform3.aspx.cs:**

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

```
namespace Assign2_2
```

```
{
```

Name: Rutvik Redkar

Roll no: 90

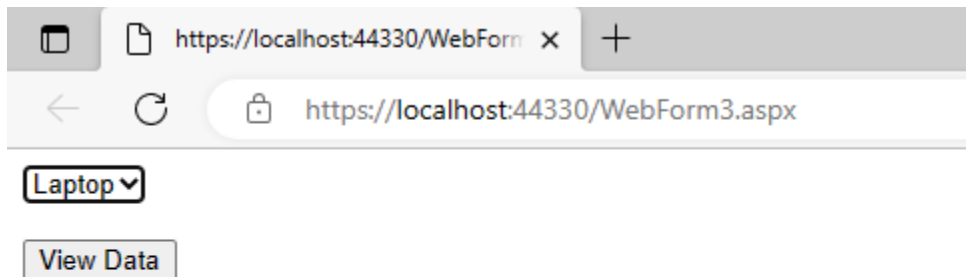
```
public partial class WebForm3 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        int id = int.Parse(DropDownList1.SelectedValue.ToString());
        Response.Redirect("WebForm4.aspx?pid="+id);

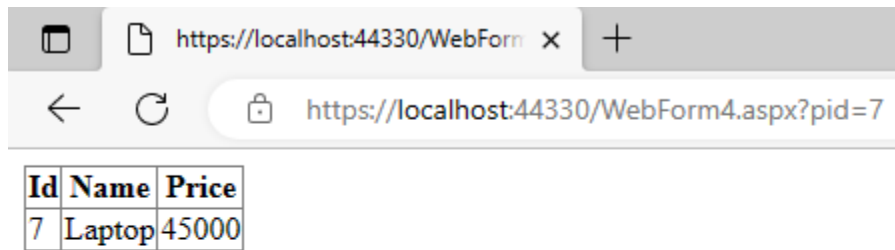
    }
}
}
```

**Output :**



Name: Rutvik Redkar

Roll no: 90



The screenshot shows a web browser window with a single tab titled 'https://localhost:44330/WebForm'. The address bar displays 'https://localhost:44330/WebForm4.aspx?pid=7'. Below the browser window, a table is displayed with the following content:

<b>Id</b>	<b>Name</b>	<b>Price</b>
7	Laptop	45000

**8. Write a program to demonstrate gridview control.**

**Aim :** Write a program to demonstrate gridview control

**Objective :** To demonstrate gridview control

**Code :**

**webform 5.aspx:**

Name: Rutvik Redkar

Roll no: 90

The screenshot displays a web application interface. On the left, a GridView contains 10 rows of data. Each row has three columns: 'Id', 'Name', and 'Price'. The 'Id' column contains values from 0 to 9, 'Name' contains 'abc', and 'Price' contains values from 0 to 9. Each row also has three links: 'Edit', 'Delete', and 'Select'. Below the GridView, there is a label 'SqlDataSource - SqlDataSource1'. On the right, a context menu titled 'GridView Tasks' is open. It includes options like 'Auto Format...', 'Choose Data Source: SqlDataSource1', 'Configure Data Source...', 'Refresh Schema', 'Edit Columns...', 'Add New Column...', and a list of checkboxes for 'Enable Paging', 'Enable Sorting', 'Enable Editing', 'Enable Deleting', and 'Enable Selection'. At the bottom of the menu is 'Edit Templates'.

	<u>I</u> d	<u>N</u> ame	<u>P</u> rice
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	0	abc	0
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	1	abc	1
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	2	abc	2
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	3	abc	3
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	4	abc	4
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	5	abc	5
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	6	abc	6
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	7	abc	7
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	8	abc	8
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	9	abc	9

1 2

SqlDataSource - SqlDataSource1

**GridView Tasks**

- Auto Format...
- Choose Data Source: SqlDataSource1
- Configure Data Source...
- Refresh Schema
- Edit Columns...
- Add New Column...
- ☒ Enable Paging
- ☒ Enable Sorting
- ☒ Enable Editing
- ☒ Enable Deleting
- ☒ Enable Selection
- Edit Templates

Name: Rutvik Redkar

Roll no: 90

The screenshot shows a web application interface with a GridView control. The GridView displays 10 rows of data. Each row contains a set of links (Edit, Delete, Select), an Id value, a Name value, and a Price value. Below the GridView, a SQLDataSource control is visible, labeled 'SqlDataSource - SqlDataSource1'.

	<u><b>Id</b></u>	<u><b>Name</b></u>	<u><b>Price</b></u>
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	0	abc	0
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	1	abc	1
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	2	abc	2
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	3	abc	3
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	4	abc	4
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	5	abc	5
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	6	abc	6
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	7	abc	7
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	8	abc	8
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>	9	abc	9

1 2

SqlDataSource - SqlDataSource1

Output :



Name: Rutvik Redkar

Roll no: 90

	<u><b>Id</b></u>	<u><b>Name</b></u>	<u><b>Price</b></u>
<u>Edit</u> <u>Delete</u> <u>Select</u>	2	AC	1200
<u>Edit</u> <u>Delete</u> <u>Select</u>	4	AC	25000
<u>Edit</u> <u>Delete</u> <u>Select</u>	5	Fan	5000
<u>Edit</u> <u>Delete</u> <u>Select</u>	6	Light	200
<u>Edit</u> <u>Delete</u> <u>Select</u>	7	Laptop	45000
<u>Edit</u> <u>Delete</u> <u>Select</u>	8	AC	12000
<u>Edit</u> <u>Delete</u> <u>Select</u>	9	25000	12
<u>Edit</u> <u>Delete</u> <u>Select</u>	10	Fan	500
<u>Edit</u> <u>Delete</u> <u>Select</u>	11	Light	20
<u>Edit</u> <u>Delete</u> <u>Select</u>	12	Light	200
1 <u>2</u>			

Update:

	<u><b>Id</b></u>	<u><b>Name</b></u>	<u><b>Price</b></u>
<u>Edit</u> <u>Delete</u> <u>Select</u>	2	AC	1200
<u>Update</u> <u>Cancel</u>	4	<input type="text" value="Tubelight"/>	<input type="text" value="25000"/>
<u>Edit</u> <u>Delete</u> <u>Select</u>	5	Fan	5000
<u>Edit</u> <u>Delete</u> <u>Select</u>	6	Light	200
<u>Edit</u> <u>Delete</u> <u>Select</u>	7	Laptop	45000
<u>Edit</u> <u>Delete</u> <u>Select</u>	8	AC	12000
<u>Edit</u> <u>Delete</u> <u>Select</u>	9	25000	12
<u>Edit</u> <u>Delete</u> <u>Select</u>	10	Fan	500
<u>Edit</u> <u>Delete</u> <u>Select</u>	11	Light	20
<u>Edit</u> <u>Delete</u> <u>Select</u>	12	Light	200
1 <u>2</u>			

Name: Rutvik Redkar

Roll no: 90

	<u><b>Id</b></u>	<u><b>Name</b></u>	<u><b>Price</b></u>
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	2	AC	1200
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	4	Tubelight	25000
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	5	Fan	5000
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	6	Light	200
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	7	Laptop	45000
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	8	AC	12000
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	9	25000	12
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	10	Fan	500
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	11	Light	20
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	12	Light	200
1 <u>2</u>			

**Delete 9 Id :**

	<u><b>Id</b></u>	<u><b>Name</b></u>	<u><b>Price</b></u>
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	2	AC	1200
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	4	Tubelight	25000
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	5	Fan	5000
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	6	Light	200
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	7	Laptop	45000
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	8	AC	12000
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	10	Fan	500
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	11	Light	20
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	12	Light	200
<u><a href="#">Edit</a></u> <u><a href="#">Delete</a></u> <u><a href="#">Select</a></u>	13	AC	12000

9. Write a program to demonstrate crud operation in detailsview control.

**Aim :** Write a program to demonstrate crud operation in detailsview control.

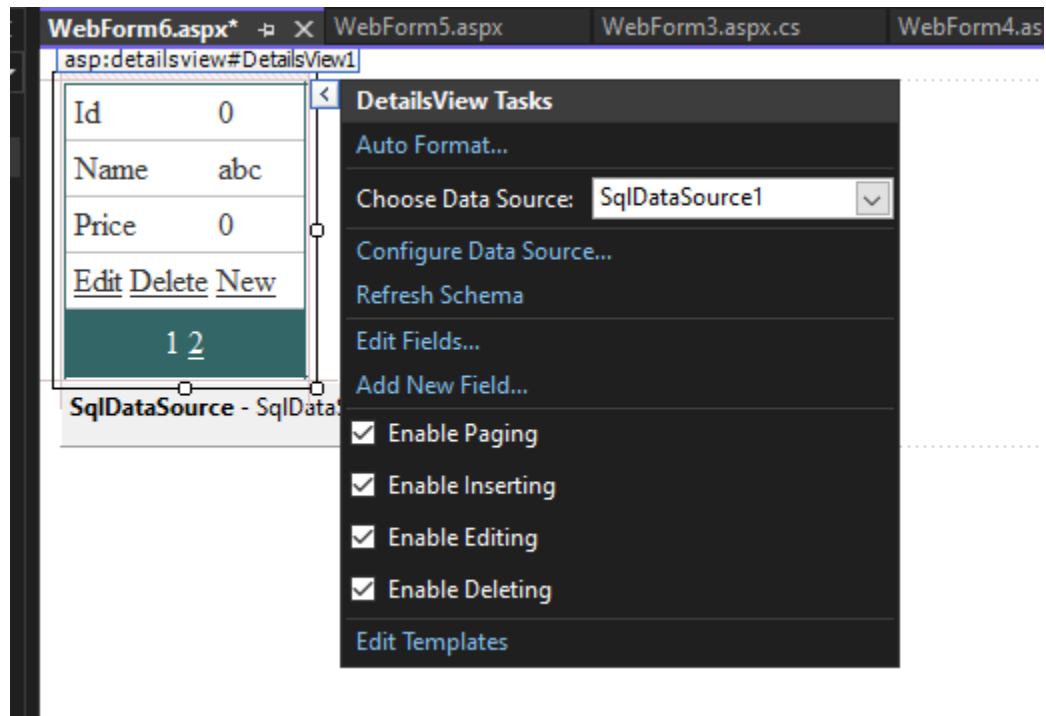
**Objective :** To demonstrate crud operation in detailsview control

Name: Rutvik Redkar

Roll no: 90

**Code :**

**Webform6.aspx:**



**Output :**

Name: Rutvik Redkar

Roll no: 90

https://localhost:44330/WebForm x +

← ↻ https://localhost:44330/WebForm6.aspx

Id	2
Name	AC
Price	1200
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">New</a>	
1 2 3 4 5 6 7 8 9 10	

Update:

Id	2
Name	<input type="text" value="Mouse"/>
Price	<input type="text" value="100"/>
<a href="#">Update</a> <a href="#">Cancel</a>	
1 2 3 4 5 6 7 8 9 10	

Id	2
Name	Mouse
Price	100
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">New</a>	
1 2 3 4 5 6 7 8 9 10	

Name: Rutvik Redkar

Roll no: 90

Deleted 10th record:

---

Id	10
Name	Fan
Price	500
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">New</a>	
<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">6</a> <a href="#">7</a> <a href="#">8</a> <a href="#">9</a>	

Insert Operation:

Name	<input type="text" value="Keyboard"/>
Price	<input type="text" value="120"/>
<a href="#">Insert</a> <a href="#">Cancel</a>	

---

Id	14
Name	Keyboard
Price	120
<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">New</a>	
<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">6</a> <a href="#">7</a> <a href="#">8</a> <a href="#">9</a> <a href="#">10</a>	

10. Write a program to demonstrate Formview control.

**Aim :**Write a program to demonstrate Formview control.

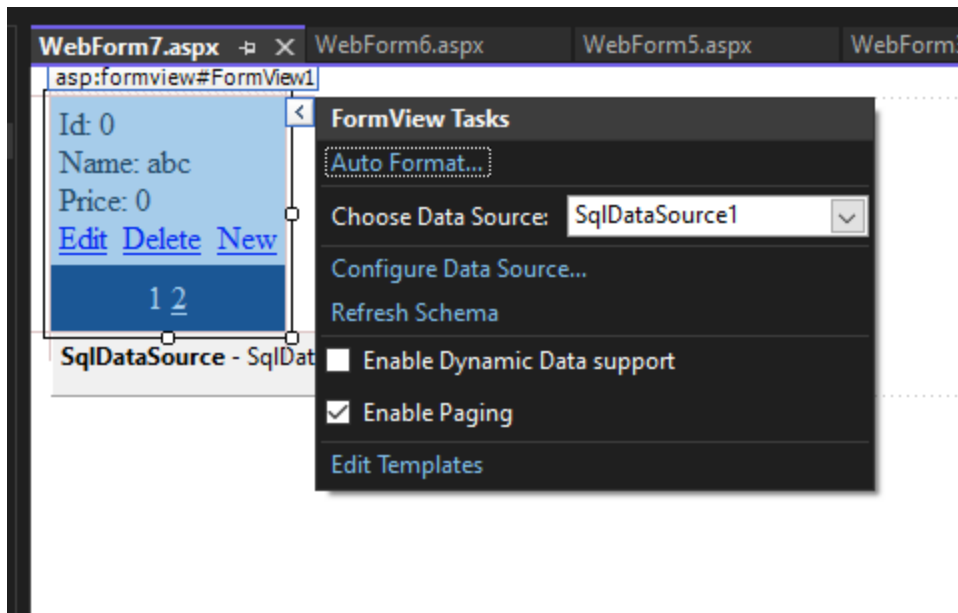
**Objective :** To demonstrate Formview control.

**Code :**

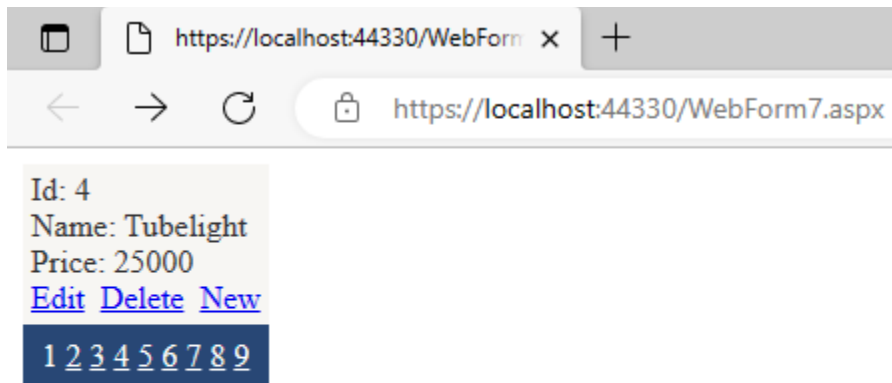
**Webform7.aspx:**

Name: Rutvik Redkar

Roll no: 90



Output :



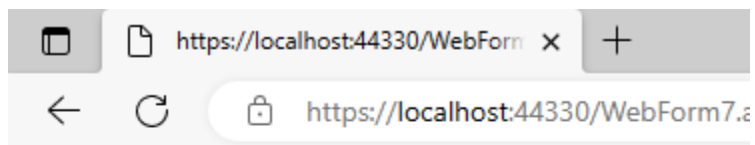
Update Operation :

Name: Rutvik Redkar

Roll no: 90

Id: 4  
Name:   
Price:   
[Update](#) [Cancel](#)

1 2 3 4 5 6 7 8 9



Id: 4  
Name: Tubelight  
Price: 250  
[Edit](#) [Delete](#) [New](#)

1 2 3 4 5 6 7 8 9

Id 4 is deleted:

Id: 5  
Name: Fan  
Price: 5000  
[Edit](#) [Delete](#) [New](#)

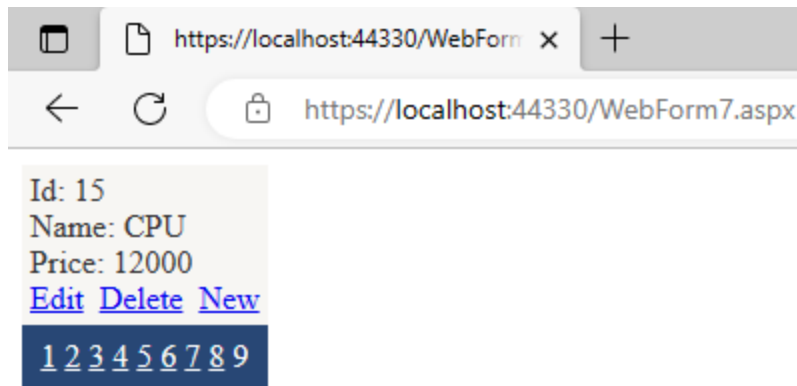
1 2 3 4 5 6 7 8

Insert Operation:

Name:   
Price:   
[Insert](#) [Cancel](#)

Name: Rutvik Redkar

Roll no: 90



11. Write a program to demonstrate DataList control.

**Aim :** Write a program to demonstrate DataList control.

**Objective :** To demonstrate DataList control.

**Code :**

**Webapplication8.aspx:**

```
<% @ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm8.aspx.cs"
```

```
Inherits="Assign2_2.WebForm8" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title></title>
```

```
</head>
```

```
<body>
```

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

```
<div>
```



Roll no: 90

```
<asp:DataList ID="DataList1" runat="server" DataKeyField="Id"
DataSourceID="SqlDataSource1" OnCancelCommand="DataList1_CancelCommand"
OnDeleteCommand="DataList1_DeleteCommand"
OnEditCommand="DataList1_EditCommand"
OnUpdateCommand="DataList1_UpdateCommand">
    <EditItemTemplate>
        ID:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~>
        <asp:TextBox ID="TextBox1" runat="server" Text='<%# Bind("Id")
%>'></asp:TextBox>
        <br />
        <br />
        Name:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~>
        <asp:TextBox ID="TextBox2" runat="server" Text='<%# Bind("Name")
%>'></asp:TextBox>
        <br />
        <br />
        Price:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~>
        <asp:TextBox ID="TextBox3" runat="server" Text='<%# Bind("Price")
%>'></asp:TextBox>
        <br />
        <br />
        <asp:LinkButton ID="LinkButton3" runat="server"
CommandName="Update">Update</asp:LinkButton>
        &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~>
        <asp:LinkButton ID="LinkButton4" runat="server"
CommandName="Cancel">Cancel</asp:LinkButton>
        <br />
    </EditItemTemplate>
    <ItemTemplate>
        Id:
        <asp:Label ID="IdLabel" runat="server" Text='<%# Eval("Id") %>' />
```

Roll no: 90

```
<asp:Parameter Name="Name" Type="String" />
```

Name: Rutvik Redkar

Roll no: 90

```
        <asp:Parameter Name="Price" Type="Int32" />
    </InsertParameters>
    <UpdateParameters>
        <asp:Parameter Name="Name" Type="String" />
        <asp:Parameter Name="Price" Type="Int32" />
        <asp:Parameter Name="Id" Type="Int32" />
    </UpdateParameters>
</asp:SqlDataSource>
</div>
</form>
</body>
</html>
```

**Design:**

Name: Rutvik Redkar

Roll no: 90

Id: 0  
Name: abc  
Price: 0  
[Edit](#) [Delete](#)

Id: 1  
Name: abc  
Price: 1  
[Edit](#) [Delete](#)

Id: 2  
Name: abc  
Price: 2  
[Edit](#) [Delete](#)

Id: 3  
Name: abc  
Price: 3  
[Edit](#) [Delete](#)

Id: 4  
Name: abc  
Price: 4  
[Edit](#) [Delete](#)

SqlDataSource - SqlDataSource1

### Webapplication8.aspx.cs:

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

Name: Rutvik Redkar

Roll no: 90

```
namespace Assign2_2
{
    public partial class WebForm8 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void DataList1_CancelCommand(object source,
        DataListCommandEventArgs e)
        {
            DataList1.EditItemIndex = -1;
            DataList1.DataBind();

        }

        protected void DataList1_DeleteCommand(object source,
        DataListCommandEventArgs e)
        {

            int id = int.Parse(DataList1.DataKeys[e.Item.ItemIndex].ToString());
            if (e.CommandName == "Delete")
            {
                SqlDataSource1.DeleteParameters["Id"].DefaultValue=id.ToString();
                SqlDataSource1.Delete();
            }

        }
    }
}
```

Name: Rutvik Redkar

Roll no: 90

```
        protected void DataList1_EditCommand(object source,
DataListCommandEventArgs e)
        {
            DataList1.EditItemIndex = e.Item.ItemIndex;
            DataList1.DataBind();
        }

        protected void DataList1_UpdateCommand(object source,
DataListCommandEventArgs e)
        {
            TextBox text_id = (TextBox)e.Item.FindControl("TextBox1");
            TextBox text_name = (TextBox)e.Item.FindControl("TextBox2");
            TextBox text_price = (TextBox)e.Item.FindControl("TextBox3");
            if(e.CommandName == "Update")
            {
                SqlDataSource1.UpdateParameters["Id"].DefaultValue =
DataList1.DataKeys[e.Item.ItemIndex].ToString();
                SqlDataSource1.UpdateParameters["Name"].DefaultValue=text_name.Text;
                SqlDataSource1.UpdateParameters["Price"].DefaultValue = text_price.Text;
                SqlDataSource1.Update();
            }
            DataList1.EditItemIndex = -1;
            DataList1.DataBind();
        }
    }
}
```

**Output :**

**Update Command:**

Name: Rutvik Redkar

Roll no: 90

Name: Rutvik Redkar

Roll no: 90

https://localhost:44330/WebForm x +

← ↻ https://localhost:44330/WebForm8.aspx

ID:

Name:

Price:

[Update](#) [Cancel](#)

Id: 6  
Name: Light  
Price: 200

[Edit](#) [Delete](#)

Id: 7  
Name: Laptop  
Price: 45000

[Edit](#) [Delete](#)

Id: 10  
Name: Fan  
Price: 500

[Edit](#) [Delete](#)

Id: 11  
Name: Light  
Price: 20

[Edit](#) [Delete](#)

Id: 12  
Name: Light  
Price: 200

[Edit](#) [Delete](#)

Id: 13  
Name: AC  
Price: 12000

[Edit](#) [Delete](#)

Id: 14  
Name: Keyboard  
Price: 120

[Edit](#) [Delete](#)



Name: Rutvik Redkar

Roll no: 90

### Fan Updated:

---

Id: 5

Name: Fan

Price: 5000

[Edit](#) [Delete](#)

Id: 6

Name: Light

Price: 200

[Edit](#) [Delete](#)

Id: 7

Name: Laptop

Price: 45000

[Edit](#) [Delete](#)

Id: 10

Name: Fan

Price: 500

[Edit](#) [Delete](#)

Id: 11

Name: Light

Price: 20

[Edit](#) [Delete](#)

Id: 12

Name: Light

Price: 200

[Edit](#) [Delete](#)

Id: 13

Name: AC

Price: 12000

[Edit](#) [Delete](#)

Id: 14

Name: Keyboard

Price: 120

[Edit](#) [Delete](#)

Id: 16

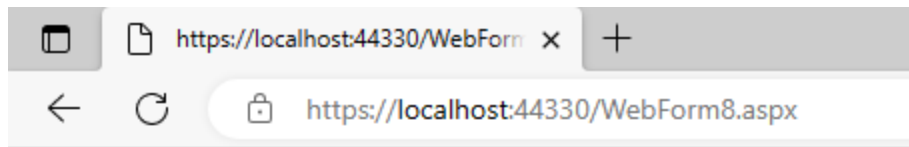
Name: Lux

Price: 200

Name: Rutvik Redkar

Roll no: 90

### Fan Delete:



Id: 6

Name: Light

Price: 200

[Edit](#) [Delete](#)

Id: 7

Name: Laptop

Price: 45000

[Edit](#) [Delete](#)

Id: 10

Name: Fan

Price: 500

[Edit](#) [Delete](#)

Id: 11

Name: Light

Price: 20

[Edit](#) [Delete](#)

Id: 12

Name: Light

Price: 200

[Edit](#) [Delete](#)

Id: 13

Name: AC

Price: 12000

[Edit](#) [Delete](#)

Id: 14

Name: Keyboard

Price: 120

[Edit](#) [Delete](#)

Id: 16

Name: Lux

Price: 30

[Edit](#) [Delete](#)

Name: Rutvik Redkar

Roll no: 90

12. Write a program to demonstrate Repeater control.

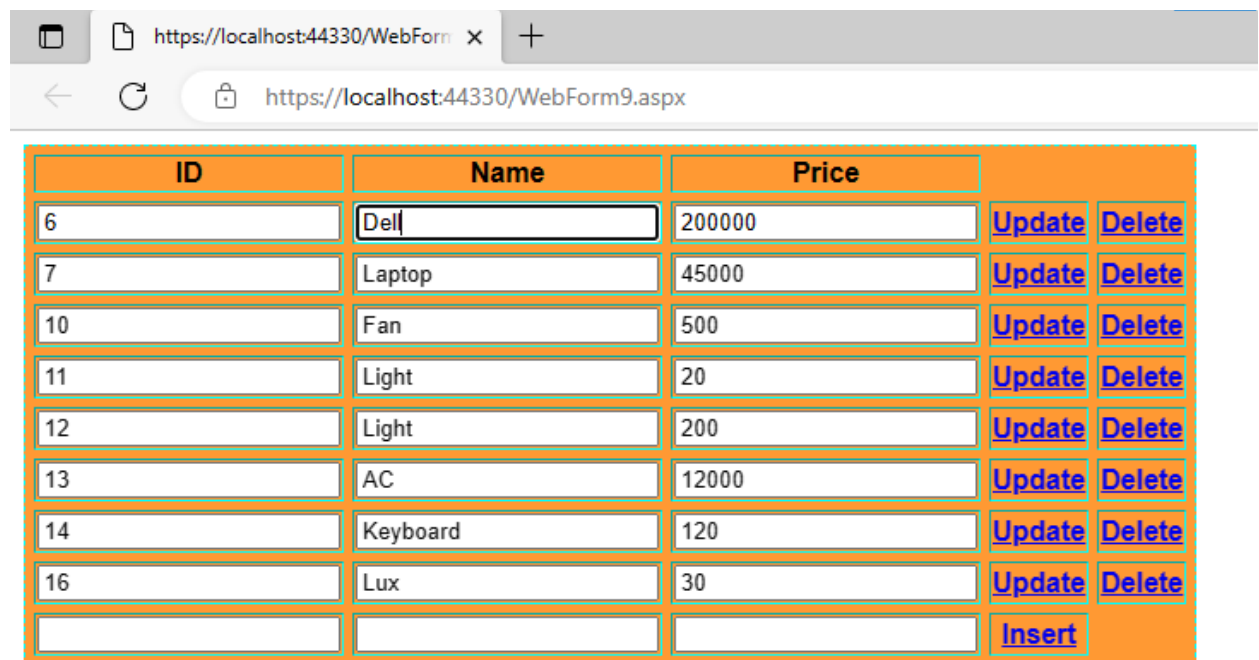
**Aim :** Write a program to demonstrate Repeater control.

**Objective :** To demonstrate Repeater control.

**Code :**

**Output :**

**Update Command:**



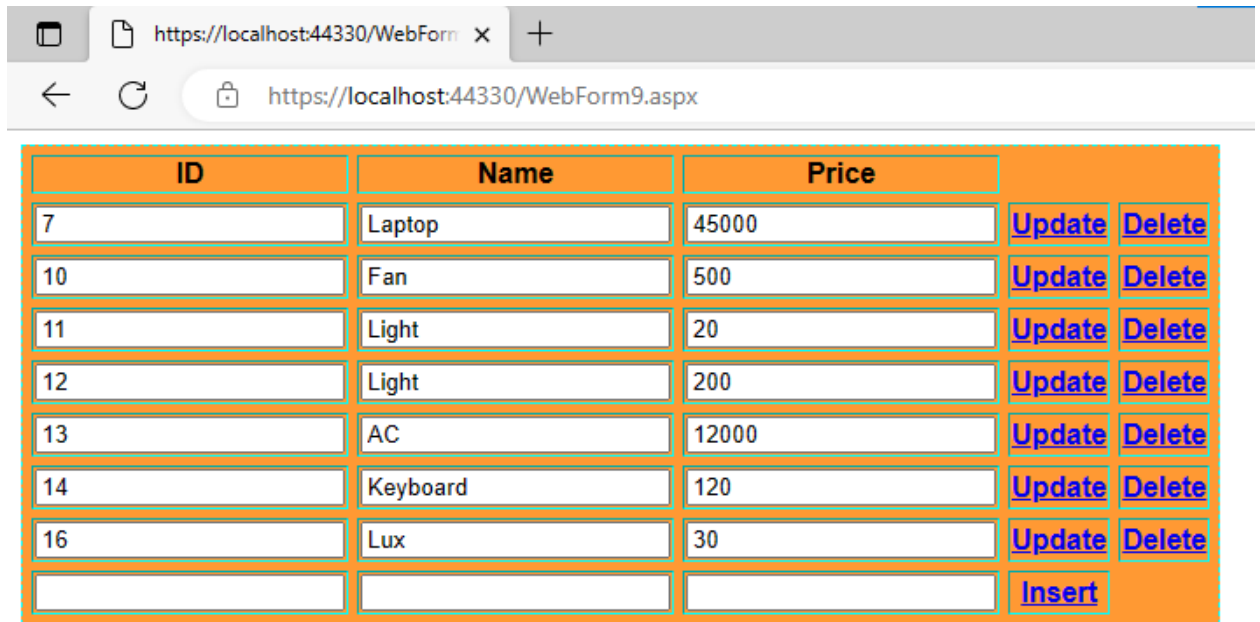
The screenshot shows a web browser window with the address bar displaying 'https://localhost:44330/WebForm9.aspx'. Below the browser window is a table with the following data:

ID	Name	Price	Update	Delete
6	Dell	200000	Update	Delete
7	Laptop	45000	Update	Delete
10	Fan	500	Update	Delete
11	Light	20	Update	Delete
12	Light	200	Update	Delete
13	AC	12000	Update	Delete
14	Keyboard	120	Update	Delete
16	Lux	30	Update	Delete
			Insert	

**Dell Deleted:**

Name: Rutvik Redkar

Roll no: 90

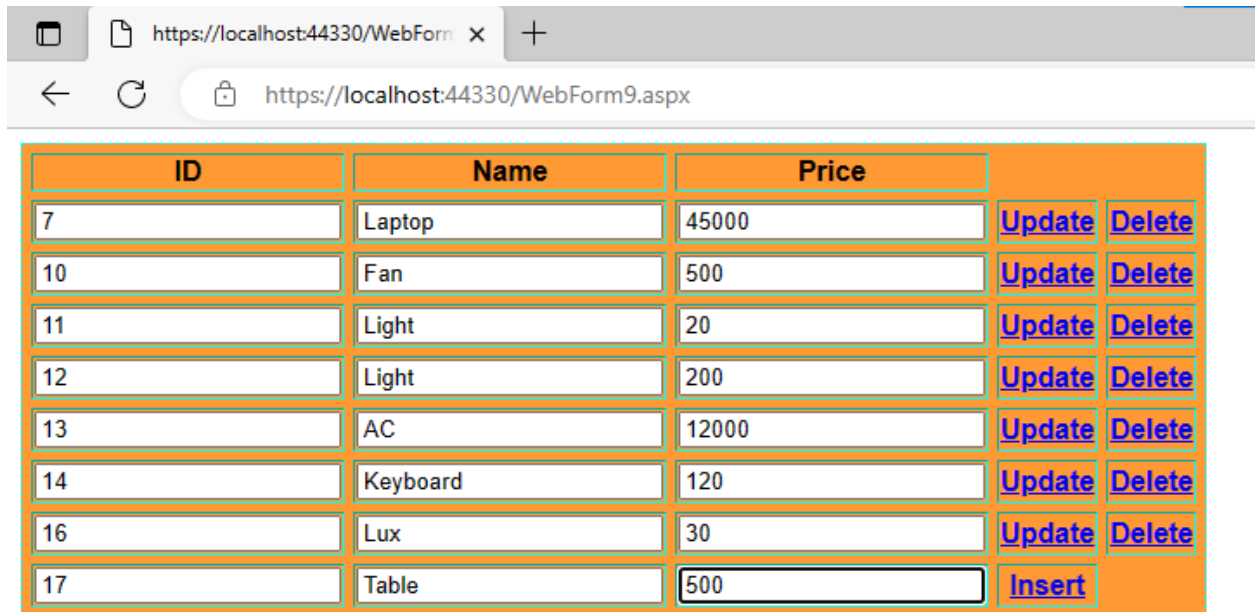


https://localhost:44330/WebForm x +

https://localhost:44330/WebForm9.aspx

ID	Name	Price		
7	Laptop	45000	<a href="#">Update</a>	<a href="#">Delete</a>
10	Fan	500	<a href="#">Update</a>	<a href="#">Delete</a>
11	Light	20	<a href="#">Update</a>	<a href="#">Delete</a>
12	Light	200	<a href="#">Update</a>	<a href="#">Delete</a>
13	AC	12000	<a href="#">Update</a>	<a href="#">Delete</a>
14	Keyboard	120	<a href="#">Update</a>	<a href="#">Delete</a>
16	Lux	30	<a href="#">Update</a>	<a href="#">Delete</a>
			<a href="#">Insert</a>	

#### Insert Command:



https://localhost:44330/WebForm x +

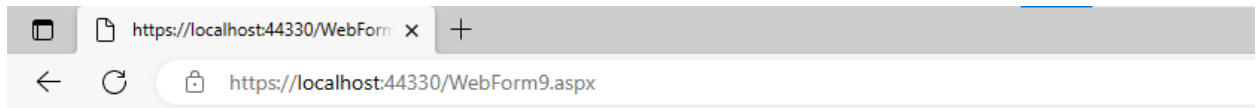
https://localhost:44330/WebForm9.aspx

ID	Name	Price		
7	Laptop	45000	<a href="#">Update</a>	<a href="#">Delete</a>
10	Fan	500	<a href="#">Update</a>	<a href="#">Delete</a>
11	Light	20	<a href="#">Update</a>	<a href="#">Delete</a>
12	Light	200	<a href="#">Update</a>	<a href="#">Delete</a>
13	AC	12000	<a href="#">Update</a>	<a href="#">Delete</a>
14	Keyboard	120	<a href="#">Update</a>	<a href="#">Delete</a>
16	Lux	30	<a href="#">Update</a>	<a href="#">Delete</a>
17	Table	500	<a href="#">Insert</a>	

#### Table Inserted:

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ID	Name	Price		
7	Laptop	45000	<a href="#">Update</a>	<a href="#">Delete</a>
10	Fan	500	<a href="#">Update</a>	<a href="#">Delete</a>
11	Light	20	<a href="#">Update</a>	<a href="#">Delete</a>
12	Light	200	<a href="#">Update</a>	<a href="#">Delete</a>
13	AC	12000	<a href="#">Update</a>	<a href="#">Delete</a>
14	Keyboard	120	<a href="#">Update</a>	<a href="#">Delete</a>
16	Lux	30	<a href="#">Update</a>	<a href="#">Delete</a>
17	Table	500	<a href="#">Update</a>	<a href="#">Delete</a>
			<a href="#">Insert</a>	

13. Write a program to demonstrate Listview control.

**Aim :** Write a program to demonstrate Listview control.

**Objective :** To demonstrate Listview control.

**Code :**

**Webapplication 10.aspx:**

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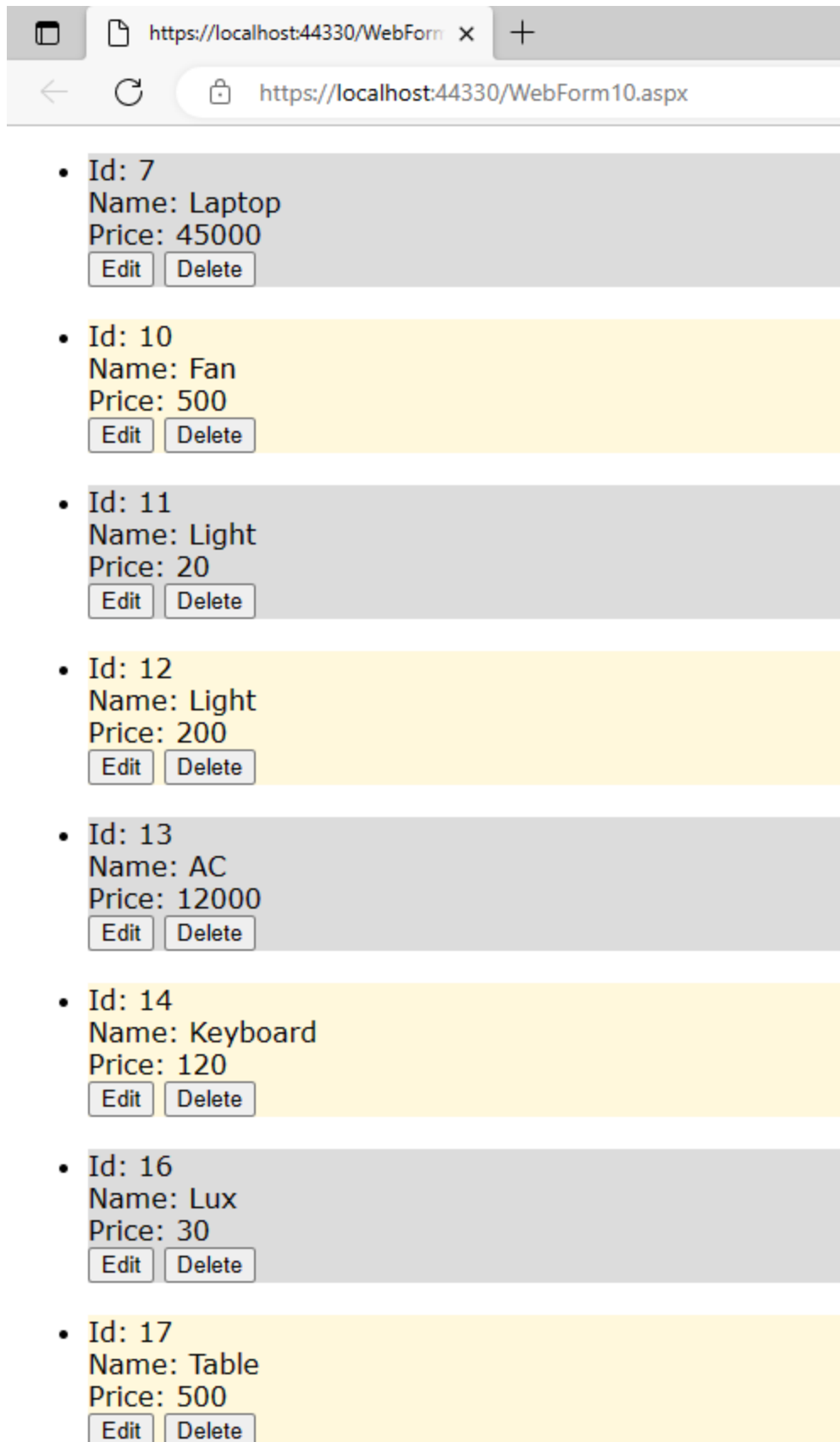
The screenshot shows a web browser window titled 'WebForm10.aspx'. The page contains a list of seven items, each with an 'Id', 'Name', and 'Price', and two buttons: 'Edit' and 'Delete'. The items are displayed in a list format with alternating background colors (gray and yellow). The 'Name' for all items is 'abc', and the 'Price' increases from 0 to 6 for Ids 0 to 6 respectively.

Id	Name	Price	Edit	Delete
0	abc	0		
1	abc	1		
2	abc	2		
3	abc	3		
4	abc	4		
5	abc	5		
6	abc	6		

**Output :**

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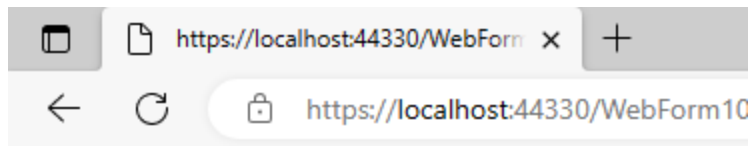


The screenshot shows a web browser window with the address bar displaying `https://localhost:44330/WebForm10.aspx`. The page content is a list of items, each with a bullet point, an ID, a name, a price, and two buttons: 'Edit' and 'Delete'. The items are alternatingly highlighted with a light gray background and a light yellow background.

Id	Name	Price	Edit	Delete
7	Laptop	45000	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
10	Fan	500	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
11	Light	20	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
12	Light	200	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
13	AC	12000	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
14	Keyboard	120	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
16	Lux	30	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
17	Table	500	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

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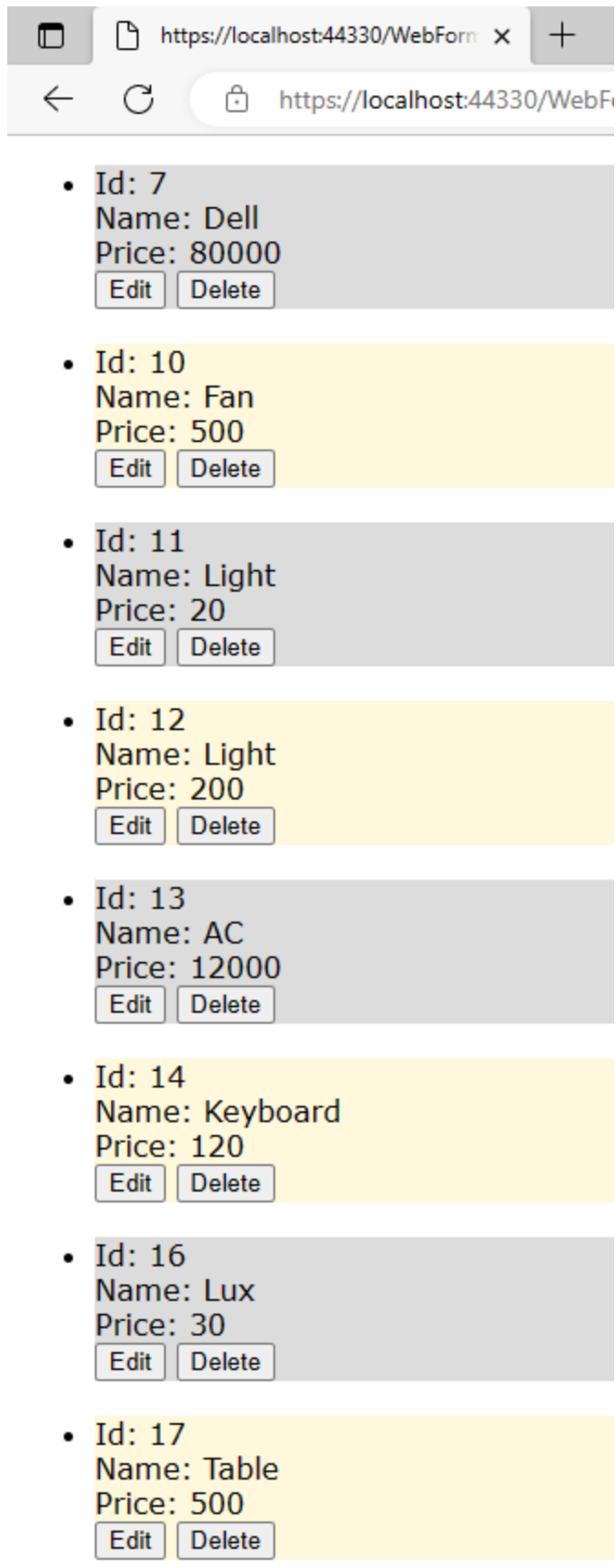
Id: 7  
Name:   
Price:

- Id: 10  
Name: Fan  
Price: 500



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The screenshot shows a web browser window with the address bar displaying "https://localhost:44330/WebForm". The page content is a list of products, each with its ID, Name, Price, and two buttons: "Edit" and "Delete". The products are listed in a vertical stack, alternating between light gray and light yellow background colors for each item.

Id	Name	Price	Edit	Delete
7	Dell	80000		
10	Fan	500		
11	Light	20		
12	Light	200		
13	AC	12000		
14	Keyboard	120		
16	Lux	30		
17	Table	500		

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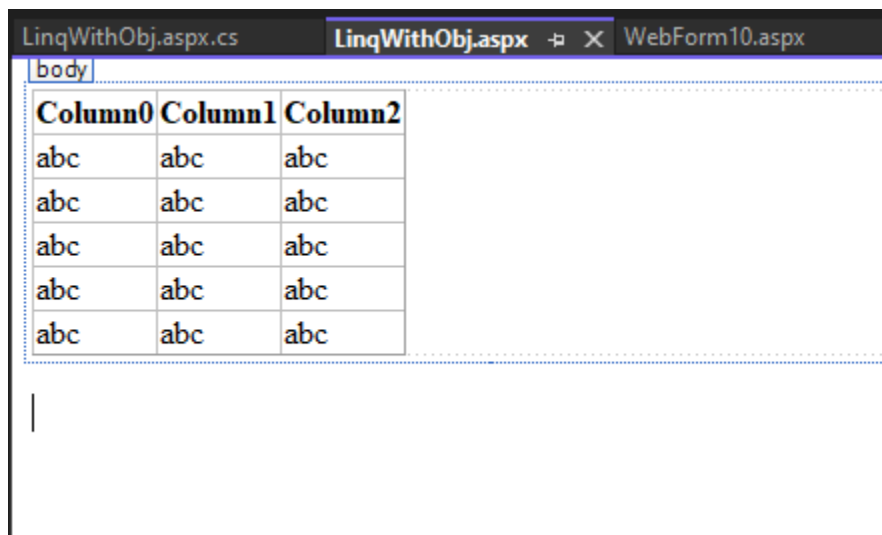
14. Write a program to demonstrate LINQ to in memory objects.

**Aim :** Write a program to demonstrate LINQ to in memory objects.

**Objective :** To demonstrate LINQ to in memory objects.

**Code :**

**LinqWithObj.aspx:**



The screenshot shows a web browser window with three tabs: 'LinqWithObj.aspx.cs', 'LinqWithObj.aspx', and 'WebForm10.aspx'. The 'LinqWithObj.aspx' tab is active. The browser displays a table with the following data:

Column0	Column1	Column2
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc

**LinqWithObj.aspx.cs:**

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

```
namespace Assign2_2
```

```
{
```

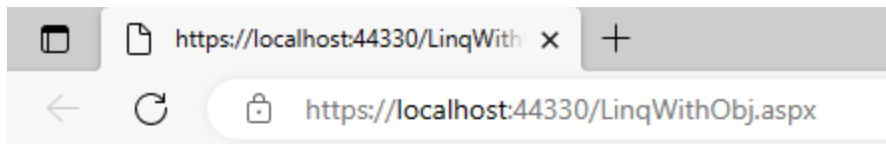
```
    public partial class LinqWithObj : System.Web.UI.Page
```

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```
{
    protected void Page_Load(object sender, EventArgs e)
    {
        int[] numbers = { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };
        GridView1.DataSource = from num in numbers
                               where num > 2
                               orderby num descending
                               select num;
        GridView1.DataBind();
    }
}
```

**Output :**



Item
10
9
8
7
6
5
4
3

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15. Write a program to demonstrate implementation of LINQ to the database.

**Aim :** Write a program to demonstrate implementation of LINQ to the database.

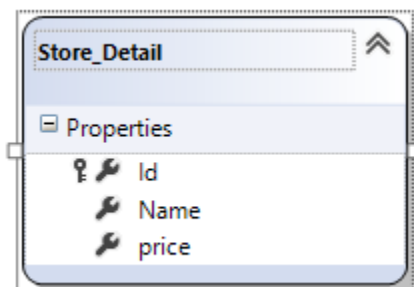
**Objective :** To demonstrate implementation of LINQ to the database.

**Code :**

**webform 1.aspx:**

Column0	Column1	Column2
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc

**DataClasses1.dbml:**



**Webform1.aspx.cs:**

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

```
namespace WebApplication22
```

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```
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            DataClasses1DataContext dataContext =new DataClasses1DataContext(

System.Configuration.ConfigurationManager.ConnectionStrings["Database1ConnectionS
tring"].ConnectionString);

            GridView1.DataSource =from product in dataContext.Store_Details select
product;

            GridView1.DataBind();
        }

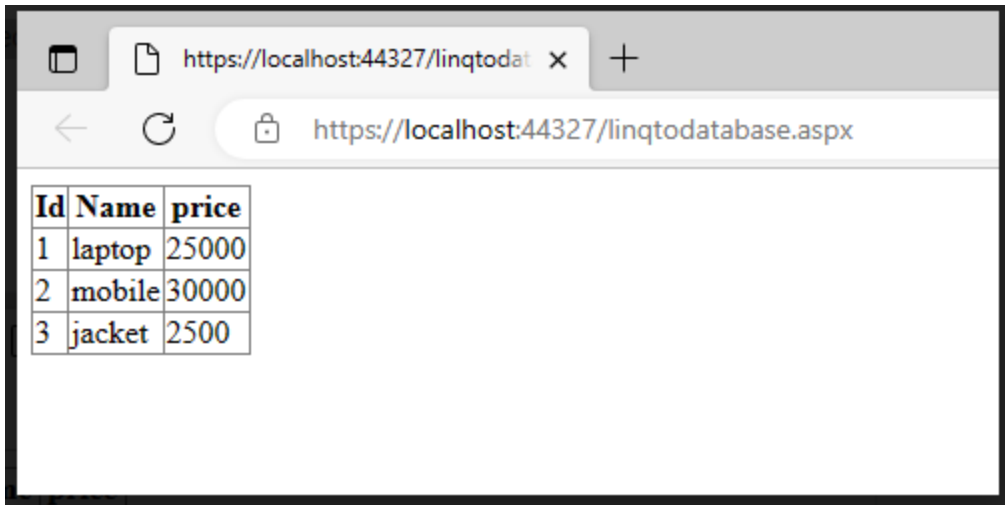
        protected void GridView1_SelectedIndexChanged(object sender, EventArgs e)
        {

        }
    }
}
```

**Output :**

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Id	Name	price
1	laptop	25000
2	mobile	30000
3	jacket	2500

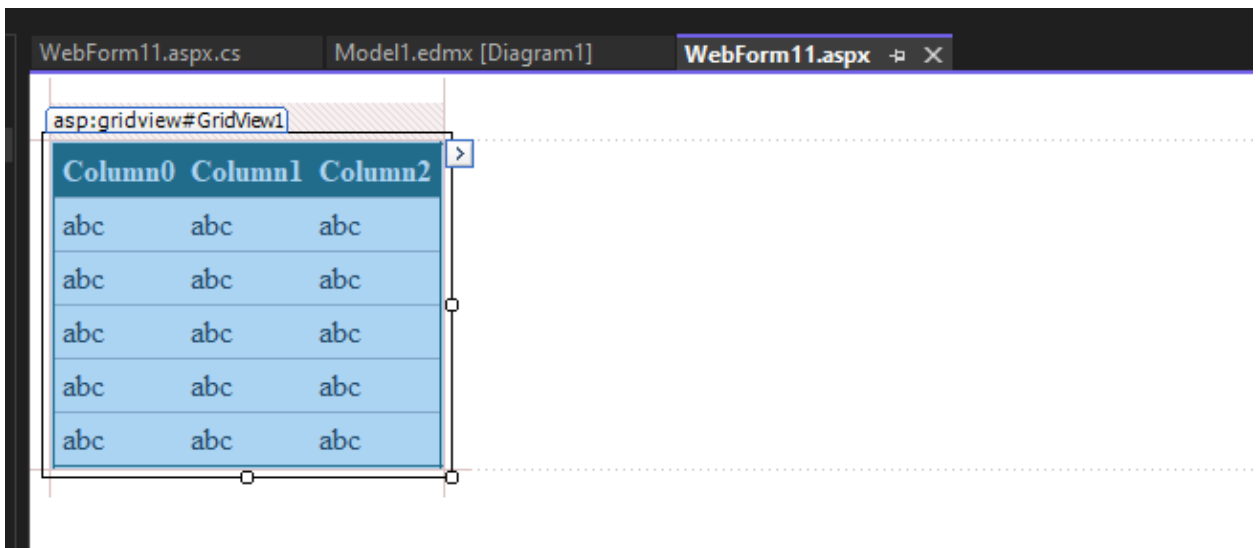
16. Write a program to perform all the operations using Entity Framework.

**Aim :** Write a program to perform all the operations using Entity Framework.

**Objective :** To perform all the operations using Entity Framework.

**Code :**

**Webform11.aspx:**

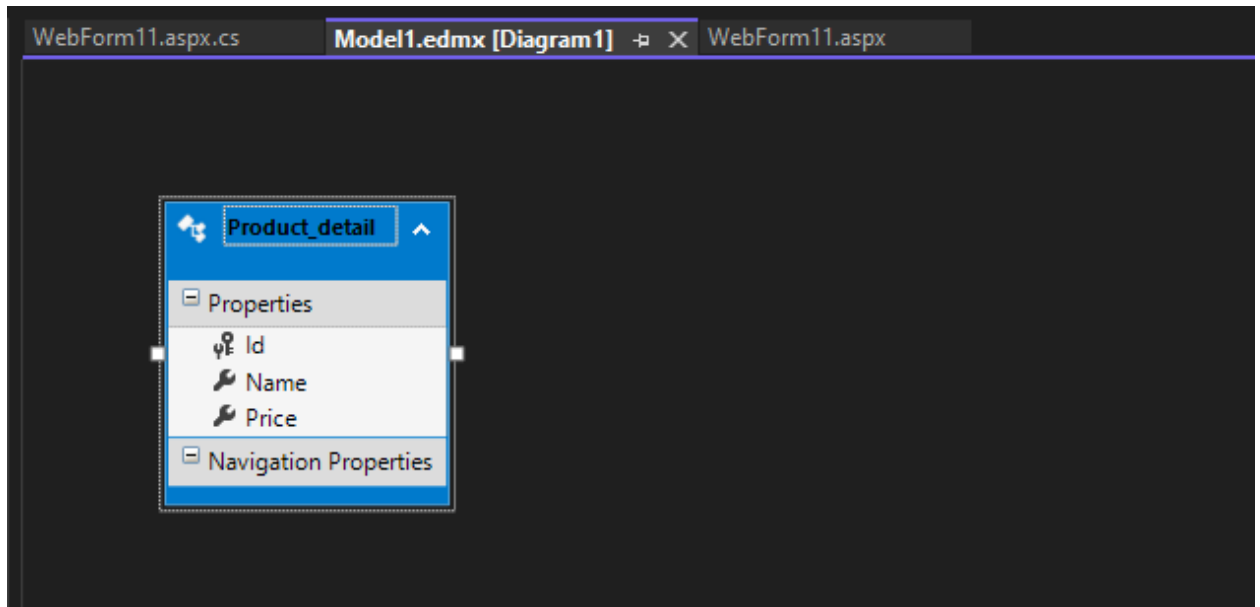


Column0	Column1	Column2
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc
abc	abc	abc

**Model1.edmx(Design):**

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### Webform11.aspx.cs:

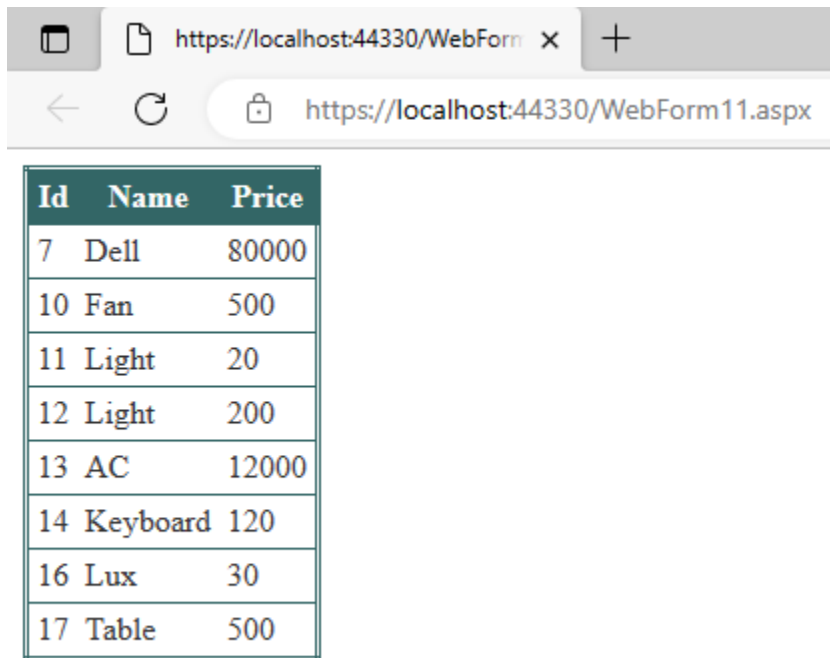
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace Assign2_2
{
    public partial class WebForm11 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            ProductEntities product= new ProductEntities();
            GridView1.DataSource = (from prod in product.Product_detail select
prod).ToList();
            GridView1.DataBind();
        }
    }
}
```

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```
}  
}
```

**Output :**



The screenshot shows a web browser window with a single tab titled 'https://localhost:44330/WebForm'. The address bar displays 'https://localhost:44330/WebForm11.aspx'. Below the browser window, a table is displayed with three columns: 'Id', 'Name', and 'Price'. The table contains eight rows of data.

Id	Name	Price
7	Dell	80000
10	Fan	500
11	Light	20
12	Light	200
13	AC	12000
14	Keyboard	120
16	Lux	30
17	Table	500

**Conclusion:** Hence, we successfully demonstrated Database Programming in ASP.NET