

# FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI

## DEPARTMENT OF MCA

### PRACTICAL NO. 03

### Database Programming in ASP.NET

**Que.1. Design an ASP.NET web Applications using Connected Database architecture to add, update, delete and search customer information from database table. Consider following schema for customer\_info table  
customer\_info(cid primary key, cname, cadd)**

**Ans:**

- **Code –  
WF.ConCustomer.aspx**

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

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WF_ConCustomer.aspx.cs"
Inherits="PracticalNo03.WF_ConCustomer" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Customer Information </title>
```

```
</head>
```

```
<body>
```

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

```
<div style="height: 482px">
```

```
<asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Size="Large"
ForeColor="#0033CC" Text="Customer Information ">
```

```
</asp:Label>
```



```

static string conStr = ConfigurationManager.ConnectionStrings["custConString"].ToString();
SqlConnection conn = null;
SqlCommand cmd = null;
SqlDataReader dr = null;
DataTable dt = null;
public void clearTextBox()
{
    txtCid.Text = " ";
    txtCname.Text = " ";
    txtCadd.Text = " ";
}
public void showData()
{
    try
    {
        cmd = new SqlCommand("SELECT * FROM cust", conn);
        if (conn.State == ConnectionState.Closed)
        {
            conn.Open();
        }
        dt = new DataTable();
        dr = cmd.ExecuteReader(); //actual query is fire

        dt.Load(dr);
        gvCustDetails.DataSource = dt;
        gvCustDetails.DataBind();
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception " + ex.Message;
    }
    finally //with or without exception finally block is executed
    {
        conn.Close();
    }
}

protected void Page_Load(object sender, EventArgs e)
{
    conn = new SqlConnection(conStr);
    showData();
}

protected void btnAdd_Click(object sender, EventArgs e)
{
    try
    {
        cmd = new SqlCommand("INSERT INTO cust(cid,cname,cadd)
VALUES(@cid,@cnm,@cadd)", conn);
        if (conn.State == ConnectionState.Closed)
        {
            conn.Open();
        }
    }
}

```

```

        cmd.Parameters.AddWithValue("@cid", txtCid.Text);
        cmd.Parameters.AddWithValue("@cnm", txtCname.Text);
        cmd.Parameters.AddWithValue("@cadd", txtCadd.Text);
        int r = cmd.ExecuteNonQuery();
        if (r != 0)
        {
            lblMessage.Text = "Record Inserted Successfully!!";
        }
        else
        {
            lblMessage.Text = "Record Not Inserted!!";
        }
    }
}
catch (Exception ex)
{
    lblMessage.Text = "Exception" + ex.Message;
}
finally
{
    conn.Close();
    clearTextBox();
    showData();
}
}

protected void btnUpdate_Click(object sender, EventArgs e)
{
    try
    {
        cmd = new SqlCommand("UPDATE cust SET cname=@cnm,cadd=@cad WHERE
cid=@cid", conn);
        if (conn.State == ConnectionState.Closed)
        {
            conn.Open();
        }
        cmd.Parameters.AddWithValue("@cid", txtCid.Text);
        cmd.Parameters.AddWithValue("@cnm", txtCname.Text);
        cmd.Parameters.AddWithValue("@cad", txtCadd.Text);
        int r = cmd.ExecuteNonQuery();
        if (r != 0)
        {
            lblMessage.Text = "Record Updated Sucessfully!!";
        }
        else
        {
            lblMessage.Text = "Record not updated!!";
        }
    }
}
catch (Exception ex)
{
    lblMessage.Text = "Exception" + ex.Message;
}
finally
{

```

```

        conn.Close();
        clearTextBox();
        showData();
    }
}

protected void btnSearch_Click(object sender, EventArgs e)
{
    try
    {
        cmd = new SqlCommand("SELECT * FROM cust WHERE cid=@cid", conn);
        if (conn.State == ConnectionState.Closed)
        {
            conn.Open();
        }
        cmd.Parameters.AddWithValue("@cid", txtCid.Text);
        SqlDataReader dr = cmd.ExecuteReader();
        if (dr.HasRows)
        {
            gvCustDetails.DataSource = dr;
            gvCustDetails.DataBind();

            lblMessage.Text = "Record found!!";
        }
        else
        {
            lblMessage.Text = "Record not found!!";
        }
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception" + ex.Message;
    }
    finally
    {
        conn.Close();
    }
}

protected void btnDelete_Click(object sender, EventArgs e)
{
    try
    {
        cmd = new SqlCommand("DELETE cust WHERE cid=@cid", conn);
        if (conn.State == ConnectionState.Closed)
        {
            conn.Open();
        }
        cmd.Parameters.AddWithValue("@cid", txtCid.Text);
        int r = cmd.ExecuteNonQuery();
        if (r != 0)
        {
            lblMessage.Text = "Record deleted Successfully!!";
        }
    }
}

```

```

else
{
    lblMessage.Text = "Record not deleted!!";
}
}
catch (Exception ex)
{
    lblMessage.Text = "Exception" + ex.Message;
}
finally
{
    conn.Close();
    clearTextBox();
    showData();
}
}
}
}

```

## • OUTPUT :

Customer Information x +

← ↻ 🏠 [https://localhost:44355/WF\\_ConCustomer.aspx](https://localhost:44355/WF_ConCustomer.aspx)

### Customer Information

Enter Customer ID :

Enter Customer Name :

Enter Customer Address :

cid	cname	cadd
101	Vaishnavi	Satara
102	Rupesh	Pune
103	Nimish	Sangali
104	Vedant	Ratnagiri
105	Shubham	Mumbai
106	Ritesh	Nimsod

Record Inserted Successfully!!

Customer Information x +

← ↻ 🏠 [https://localhost:44355/WF\\_ConCustomer.aspx](https://localhost:44355/WF_ConCustomer.aspx)

### Customer Information

Enter Customer ID :

Enter Customer Name :

Enter Customer Address :

cid	cname	cadd
101	Vedantika	Vaduth
102	Rupesh	Pune
103	Nimish	Sangali
104	Vedant	Ratnagiri
105	Shubham	Mumbai
106	Ritesh	Nimsod

Record Updated Successfully!!

Customer Information x +

← ↻ 🏠 [https://localhost:44355/WF\\_ConCustomer.aspx](https://localhost:44355/WF_ConCustomer.aspx)

### Customer Information

Enter Customer ID :

Enter Customer Name :

Enter Customer Address :

cid	cname	cadd
102	Rupesh	Pune

Record found!!

Customer Information x +

← ↻ 🏠 [https://localhost:44355/WF\\_ConCustomer.aspx](https://localhost:44355/WF_ConCustomer.aspx)

### Customer Information

Enter Customer ID :

Enter Customer Name :

Enter Customer Address :

cid	cname	cadd
101	Vedantika	Vaduth
103	Nimish	Sangali
104	Vedant	Ratnagiri
105	Shubham	Mumbai
106	Ritesh	Nimsod

Record deleted Successfully!!

**Que.2. Design an ASP.NET web Applications using Disconnected Database architecture to to add, update,delete and search employee information from database table. Consider following schema for emp\_info table emp\_info(eid primary key, ename, designation, salary)**

**Ans:**

- **Code –**  
**WF\_EmpDisconnect.aspx**

**Employee Information**

Enter Employee id :

Enter Employee Name :

Enter Employee Designation :

Enter Employee Salary :

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

Message

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WF_EmpDisconnect.aspx.cs"
Inherits="PracticalNo03.WF_EmpDisconnect" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Employee Information</title>
```

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<asp:Label ID="Label1" runat="server" Text="Employee Information" Font-Size="X-Large"
ForeColor="#CC33FF"></asp:Label>
```

```
<br />
```

```
<br />
```

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

[illegible]

## WF\_EmpDisconnect.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.Configuration;
using System.Data;
using System.Data.SqlClient;

namespace PracticalNo03
{
    public partial class WF_EmpDisconnect : System.Web.UI.Page
    {
        static string conStr = ConfigurationManager.ConnectionStrings["empConString"].ToString();
        SqlConnection conn = null;
        SqlCommand cmd = null;
        SqlDataAdapter da = null;
        SqlCommandBuilder builder = null;
        DataSet ds = null;
        public void clearTextBox()
        {
            txtEid.Text = " ";
            txtEname.Text = " ";
            txtDesignation.Text = " ";
            txtSalary.Text = " ";
        }
        public void showData()
        {
            try
            {
                if (conn.State == ConnectionState.Closed)
                {
                    conn.Open();
                }

                da = new SqlDataAdapter();
                ds = new DataSet();

                da.MissingSchemaAction = MissingSchemaAction.AddWithKey;

                cmd = new SqlCommand("SELECT * FROM emp", conn);
                cmd.CommandType = CommandType.Text;
                da.SelectCommand = cmd;

                da.Fill(ds, "empDS");
                gvEmpDetails.DataSource = ds.Tables["empDS"];
                gvEmpDetails.DataBind();
            }
            catch (Exception ex)
            {
                lblMessage.Text = "Exception " + ex.Message;
            }
            finally //with or without exception finally block is executed
            {
                conn.Close();
            }
        }
    }
}

```

```

    }
}

protected void Page_Load(object sender, EventArgs e)
{
    conn = new SqlConnection(conStr);
    showData();
}

protected void btnAdd_Click(object sender, EventArgs e)
{
    try
    {
        if (txtEid.Text != "" && txtEname.Text != "" && txtDesignation.Text != "" &&
txtSalary.Text != "")
        {
            builder = new SqlCommandBuilder(da);

            DataRow drNew = ds.Tables["empDS"].NewRow();

            drNew[0] = txtEid.Text;
            drNew[1] = txtEname.Text;
            drNew[2] = txtDesignation.Text;
            drNew[3] = txtSalary.Text;

            ds.Tables["empDS"].Rows.Add(drNew);

            builder.GetInsertCommand();

            int r = da.Update(ds, "empDS");
            if (r != 0)
            {
                lblMessage.Text = "Record Inserted Successfully!!";
            }
            else
            {
                lblMessage.Text = "Record not Inserted!!";
            }
        }
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception" + ex.Message;
    }
    finally
    {
        conn.Close();
        clearTextBox();
        showData();
    }
}

protected void btnDelete_Click(object sender, EventArgs e)

```

```

{
    try
    {
        if (txtEid.Text != "")
        {
            builder = new SqlCommandBuilder(da);

            DataRow drDelete = ds.Tables["empDS"].Rows.Find(Convert.ToInt32(txtEid.Text));

            drDelete.Delete();

            builder.GetDeleteCommand();

            int r = da.Update(ds, "empDS");
            if (r != 0)
            {
                lblMessage.Text = "Record Deleted Successfully!!";
            }
            else
            {
                lblMessage.Text = "Record not Deleted!!";
            }
        }
    }

    catch (Exception ex)
    {
        lblMessage.Text = "Exception" + ex.Message;
    }
    finally
    {
        conn.Close();
        clearTextBox();
        showData();
    }
}

protected void btnUpdate_Click(object sender, EventArgs e)
{
    try
    {
        if (txtEid.Text != "")
        {
            builder = new SqlCommandBuilder(da);

            DataRow drUpdate = ds.Tables["empDS"].Rows.Find(Convert.ToInt32(txtEid.Text));

            drUpdate[1] = txtEname.Text;
            drUpdate[2] = txtDesignation.Text;
            drUpdate[3] = txtSalary.Text;

            builder.GetUpdateCommand();

            int r = da.Update(ds, "empDS");

```

```

        if (r != 0)
        {
            lblMessage.Text = "Record Updated Successfully!!";
        }
        else
        {
            lblMessage.Text = "Record not Updated!!";
        }
    }
}

catch (Exception ex)
{
    lblMessage.Text = "Exception" + ex.Message;
}
finally
{
    conn.Close();
    clearTextBox();
    showData();
}
}

protected void btnSearch_Click(object sender, EventArgs e)
{
    try
    {
        if (txtEid.Text != "")
        {
            builder = new SqlCommandBuilder(da);

            DataRow drSearch = ds.Tables["empDS"].Rows.Find(Convert.ToInt32(txtEid.Text));

            if (drSearch != null)
            {
                lblMessage.Text = "Record found Successfully!!";
                clearTextBox();
                txtEid.Text = drSearch[0].ToString();
                txtEname.Text = drSearch[1].ToString();
                txtDesignation.Text = drSearch[2].ToString();
                txtSalary.Text = drSearch[3].ToString();
            }
            else
            {
                lblMessage.Text = "Record not found!!";
            }
        }
    }
}

catch (Exception ex)
{
    lblMessage.Text = "Exception" + ex.Message;
}
finally
{

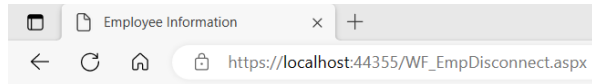
```

```

        conn.Close();
        showData();
    }
}
}
}

```

## • OUTPUT :



### Employee Information

Enter Employee id :

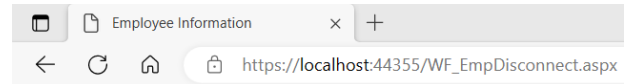
Enter Employee Name :

Enter Employee Designation :

Enter Employee Salary :

eid	ename	designation	salary
101	VaishnaviS	Analyst	60000
102	Rupesh	HR	45000
103	Nimish	Tester	42000
104	Vedant	Manager	55000
105	Shraddha	HR	41000
106	Varad	CEO	1000000

Record Inserted Successfully!!



### Employee Information

Enter Employee id :

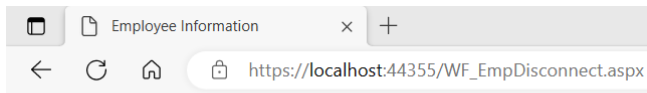
Enter Employee Name :

Enter Employee Designation :

Enter Employee Salary :

eid	ename	designation	salary
101	VaishnaviS	Analyst	60000
102	Rupesh	HR	45000
104	Vedant	Manager	55000
105	Shraddha	HR	41000
106	Varad	CEO	1000000

Record Deleted Successfully!!



### Employee Information

Enter Employee id :

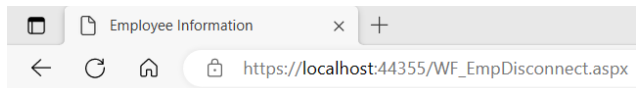
Enter Employee Name :

Enter Employee Designation :

Enter Employee Salary :

eid	ename	designation	salary
101	VaishnaviS	Analyst	60000
102	Rupesh	HR	45000
104	Nimish	Tester	65000
105	Shraddha	HR	41000
106	Varad	CEO	1000000

Record Updated Successfully!!



### Employee Information

Enter Employee id :

Enter Employee Name :

Enter Employee Designation :

Enter Employee Salary :

eid	ename	designation	salary
101	VaishnaviS	Analyst	60000
102	Rupesh	HR	45000
104	Nimish	Tester	65000
105	Shraddha	HR	41000
106	Varad	CEO	1000000

Record found Successfully!!

**Que.3. Create stored procedures to add and search employee information from emp\_info table and design asp.net web form to call both procedures using connected architecture.**

**Ans:**

- **Code –**  
**WF\_ConStoreProcEmp.aspx**

**Employee Information**

Enter Employee id :

Enter Employee Name :

Enter Employee Designation :

Enter Employee Salary :

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

Message

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WF_ConStoreProcEmp.aspx.cs" Inherits="PracticalNo03.WF_ConStoreProcEmp" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div style="height: 469px">
```

```
<asp:Label ID="Label1" runat="server" Text="Employee Information" Font-Size="X-Large"
ForeColor="#CC33FF"></asp:Label>
```

```
<br />
```

```
<br />
```

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

```
<asp:TextBox ID="txtEid" runat="server" Height="19px"></asp:TextBox>
```

```
<br />
```

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



```

public void clearTextBox()
{
    txtEid.Text = " ";
    txtEname.Text = " ";
    txtDesignation.Text = " ";
    txtSalary.Text = " ";
}
public void showData()
{
    try
    {
        cmd = new SqlCommand("SELECT * FROM emp", conn);
        if (conn.State == ConnectionState.Closed)
        {
            conn.Open();
        }
        dt = new DataTable();
        dr = cmd.ExecuteReader();

        dt.Load(dr);
        gvEmpDetails.DataSource = dt;
        gvEmpDetails.DataBind();
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception " + ex.Message;
    }
    finally
    {
        conn.Close();
    }
}

protected void Page_Load(object sender, EventArgs e)
{
    conn = new SqlConnection(conStr);
    showData();
}

protected void btnAddSP_Click(object sender, EventArgs e)
{
    try
    {
        cmd = new SqlCommand();
        if (conn.State == ConnectionState.Closed)
        {
            conn.Open();
        }
        cmd.Connection = conn;
        cmd.CommandType = CommandType.StoredProcedure;

        cmd.CommandText = "insertEmpData";
    }
}

```



```

        cmd.Parameters.Add(new SqlParameter("@eid", SqlDbType.TinyInt)).Value =
Convert.ToInt16(txtEid.Text);
        cmd.Parameters.Add(new SqlParameter("@ename", SqlDbType.NVarChar)).Value =
txtEname.Text;
        cmd.Parameters.Add(new SqlParameter("@designation", SqlDbType.NVarChar)).Value =
txtDesignation.Text;
        cmd.Parameters.Add(new SqlParameter("@salary", SqlDbType.Int)).Value =
Convert.ToInt64(txtSalary.Text);
        int r = cmd.ExecuteNonQuery();

        if (r != 0)
        {
            lblMessage.Text = "Record Inserted Successfully!!";
        }
        else
        {
            lblMessage.Text = "Record not Inserted!!";
        }
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception" + ex.Message;
    }
    finally
    {
        conn.Close();
        clearTextBox();
        showData();
    }
}

```

```

protected void btnSearchSP_Click(object sender, EventArgs e)
{
    try
    {
        cmd = new SqlCommand();
        if (conn.State == ConnectionState.Closed)
        {
            conn.Open();
        }
        cmd.Connection = conn;
        cmd.CommandType = CommandType.StoredProcedure;
        cmd.CommandText = "searchEmpData";
        cmd.Parameters.Add(new SqlParameter("@eid", SqlDbType.TinyInt)).Value =
Convert.ToInt16(txtEid.Text);
        dr = cmd.ExecuteReader();
        if (dr.HasRows)
        {
            lblMessage.Text = "Record found Successfully!!";
            while (dr.Read())
            {
                clearTextBox();
                txtEid.Text = dr["eid"].ToString();
                txtEname.Text = dr["ename"].ToString();
                txtDesignation.Text = dr["designation"].ToString();
            }
        }
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception" + ex.Message;
    }
}

```

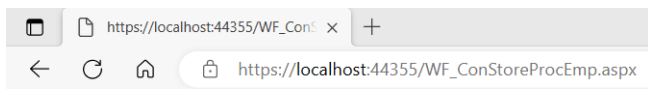
```

        txtSalary.Text = dr["salary"].ToString();
    }
}
else
{
    lblMessage.Text = "Record not found!!";
}

}
catch (Exception ex)
{
    lblMessage.Text = "Exception" + ex.Message;
}
finally
{
    conn.Close();
    showData();
}
}
}
}

```

## • OUTPUT :



### Employee Information

Enter Employee id :

Enter Employee Name :

Enter Employee Designation :

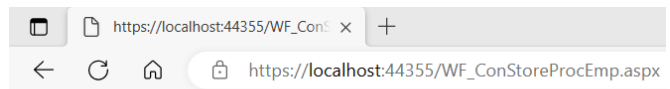
Enter Employee Salary :

eid	ename	designation	salary
101	VaishnaviS	Analyst	60000
102	Rupesh	HR	45000
104	Nimish	Tester	65000
105	Shraddha	HR	41000
106	Varad	CEO	1000000
107	Ritesh	Tester	60000

Record Inserted Successfully!!

Add Using Stored Procedure

Search Using Stored Procedure



### Employee Information

Enter Employee id :

Enter Employee Name :

Enter Employee Designation :

Enter Employee Salary :

eid	ename	designation	salary
101	VaishnaviS	Analyst	60000
102	Rupesh	HR	45000
104	Nimish	Tester	65000
105	Shraddha	HR	41000
106	Varad	CEO	1000000
107	Ritesh	Tester	60000

Record found Successfully!!

Add Using Stored Procedure

Search Using Stored Procedure

**Que.4. Design asp.net web application to demonstrate DataList, DetailsView, FormView, GridView, ListView and Repeater Data Bound Controls. (Use ProductDetails table).**

**Ans:**

- **Code –**  
**WF\_DataBoundControls.aspx**

**Data Bound Controls**

**Data List Control**

pid: 0  
pname: abc  
pdetails: abc  
price: 0  
quantity: 0

pid: 1  
pname: abc  
pdetails: abc  
price: 1  
quantity: 1

pid: 2  
pname: abc  
pdetails: abc  
price: 2  
quantity: 2

pid: 3  
pname: abc  
pdetails: abc  
price: 3  
quantity: 3

pid: 4  
pname: abc  
pdetails: abc  
price: 4  
quantity: 4

SqlDataSource - SqlDataSource1

**Details View Control**

pid	0
pname	abc
pdetails	abc
price	0
quantity	0

SqlDataSource - SqlDataSource2

**Form View Control**

pid: 0  
pname: abc  
pdetails: abc  
price: 0  
quantity: 0

SqlDataSource - SqlDataSource3

**Grid View Control**

pid	pname	pdetails	price	quantity
0	abc	abc	0	0
1	abc	abc	1	1
2	abc	abc	2	2
3	abc	abc	3	3
4	abc	abc	4	4

SqlDataSource - SqlDataSource4

**ListView Control**

pid: 0	pid: 1	pid: 2	pid: 3	pid: 4	pid: 5	pid: 6	pid: 7	pid: 8	pid: 9	pid: 10
pname: abc	pname: abc	pname: abc	pname: abc	pname: abc	pname: abc	pname: abc	pname: abc	pname: abc	pname: abc	pname: abc
pdetails: abc	pdetails: abc	pdetails: abc	pdetails: abc	pdetails: abc	pdetails: abc	pdetails: abc	pdetails: abc	pdetails: abc	pdetails: abc	pdetails: abc
price: 0	price: 1	price: 2	price: 3	price: 4	price: 5	price: 6	price: 7	price: 8	price: 9	price: 10
quantity: 0	quantity: 1	quantity: 2	quantity: 3	quantity: 4	quantity: 5	quantity: 6	quantity: 7	quantity: 8	quantity: 9	quantity: 10

SqlDataSource - SqlDataSource5

**Repeater Control**

ProdID	ProdName	ProdDetails	ProdPrice	ProdQuantity
Databound	Databound	Databound	Databound	Databound
Databound	Databound	Databound	Databound	Databound
Databound	Databound	Databound	Databound	Databound
Databound	Databound	Databound	Databound	Databound
Databound	Databound	Databound	Databound	Databound

SqlDataSource - SqlDataSource6

```

<% @ Page Language="C#" AutoEventWireup="true"
CodeBehind="WF_DataBoundControls.aspx.cs"
Inherits="PracticalNo03.WF_DataBoundControls" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Data Bound Controls</title>
    <style type="text/css">
        .TableCSS
        {
            border-style:double;
            background-color:white;
            text-align:center;
            margin-bottom: 0px;
        }
        .TableHeader
        {
            background-color:darkgrey;
            color:black;
            font-size:medium;
            font-family:'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
        }
        .TableData
        {
            background-color:gainsboro;
            color:black;
            font-family:Calibri;
            font-size:medium;
            font-weight:bold;
        }
    </style>

</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Size="X-Large"
ForeColor="#FF3399" Text="Data Bound Controls"></asp:Label>
            <br />
            <asp:Label ID="Label2" runat="server" Font-Bold="True" Font-Italic="True" Font-
Size="Large" Text="Data List Control"></asp:Label>
            <br />

            <asp:DataList ID="DataList1" runat="server" DataKeyField="pid"
DataSourceID="SqlDataSource1">
                <ItemTemplate>
                    pid:
                    <asp:Label ID="pidLabel" runat="server" Text='<%# Eval("pid") %>' />

```

```

        <br />
        pname:
        <asp:Label ID="pnameLabel" runat="server" Text='<%# Eval("pname") %>' />
        <br />
        pdetails:
        <asp:Label ID="pdetailsLabel" runat="server" Text='<%# Eval("pdetails") %>'
/>

        <br />
        price:
        <asp:Label ID="priceLabel" runat="server" Text='<%# Eval("price") %>' />
        <br />
        quantity:
        <asp:Label ID="quantityLabel" runat="server" Text='<%# Eval("quantity") %>'
/>

        <br />
<br />
        </ItemTemplate>
    </asp:DataList>
    <asp:SqlDataSource ID="SqlDataSource1" runat="server" ConnectionString="<%=
ConnectionString:prodConString %>" SelectCommand="SELECT * FROM
[productDetails]"></asp:SqlDataSource>
    <br />
    <asp:Label ID="Label3" runat="server" Font-Bold="True" Font-Italic="True" Font-
Size="Large" Text="Details View Control"></asp:Label>
    <br />
    <br />
    <asp:DetailsView ID="DetailsView1" runat="server" AutoGenerateRows="False"
DataKeyNames="pid" DataSourceID="SqlDataSource2" Height="50px" Width="125px">
        <Fields>
            <asp:BoundField DataField="pid" HeaderText="pid" ReadOnly="True"
SortExpression="pid" />
            <asp:BoundField DataField="pname" HeaderText="pname"
SortExpression="pname" />
            <asp:BoundField DataField="pdetails" HeaderText="pdetails"
SortExpression="pdetails" />
            <asp:BoundField DataField="price" HeaderText="price" SortExpression="price"
/>

            <asp:BoundField DataField="quantity" HeaderText="quantity"
SortExpression="quantity" />
        </Fields>
    </asp:DetailsView>
    <asp:SqlDataSource ID="SqlDataSource2" runat="server" ConnectionString="<%=
ConnectionString:prodConString %>" SelectCommand="SELECT * FROM
[productDetails]"></asp:SqlDataSource>
    <br />
    <asp:Label ID="Label4" runat="server" Font-Bold="True" Font-Italic="True" Font-
Size="Large" Text="Form View Control"></asp:Label>
    <br />
    <br />
    <asp:FormView ID="FormView1" runat="server" DataKeyNames="pid"
DataSourceID="SqlDataSource3">

```

```

<EditItemTemplate>
    pid:
    <asp:Label ID="pidLabel1" runat="server" Text='<%# Eval("pid") %>' />
    <br />
    pname:
    <asp:TextBox ID="pnameTextBox" runat="server" Text='<%# Bind("pname")
%>' />
    <br />
    pdetails:
    <asp:TextBox ID="pdetailsTextBox" runat="server" Text='<%# Bind("pdetails")
%>' />
    <br />
    price:
    <asp:TextBox ID="priceTextBox" runat="server" Text='<%# Bind("price") %>'
/>
    <br />
    quantity:
    <asp:TextBox ID="quantityTextBox" runat="server" Text='<%#
Bind("quantity") %>' />
    <br />
    <asp:LinkButton ID="UpdateButton" runat="server" CausesValidation="True"
CommandName="Update" Text="Update" />
    &nbsp;<asp:LinkButton ID="UpdateCancelButton" runat="server"
CausesValidation="False" CommandName="Cancel" Text="Cancel" />
</EditItemTemplate>
<InsertItemTemplate>
    pid:
    <asp:TextBox ID="pidTextBox" runat="server" Text='<%# Bind("pid") %>' />
    <br />
    pname:
    <asp:TextBox ID="pnameTextBox" runat="server" Text='<%# Bind("pname")
%>' />
    <br />
    pdetails:
    <asp:TextBox ID="pdetailsTextBox" runat="server" Text='<%# Bind("pdetails")
%>' />
    <br />
    price:
    <asp:TextBox ID="priceTextBox" runat="server" Text='<%# Bind("price") %>'
/>
    <br />
    quantity:
    <asp:TextBox ID="quantityTextBox" runat="server" Text='<%#
Bind("quantity") %>' />
    <br />
    <asp:LinkButton ID="InsertButton" runat="server" CausesValidation="True"
CommandName="Insert" Text="Insert" />
    &nbsp;<asp:LinkButton ID="InsertCancelButton" runat="server"
CausesValidation="False" CommandName="Cancel" Text="Cancel" />
</InsertItemTemplate>
<ItemTemplate>

```

```

        pid:
        <asp:Label ID="pidLabel" runat="server" Text='<%=# Eval("pid") %>' />
        <br />
        pname:
        <asp:Label ID="pnameLabel" runat="server" Text='<%=# Bind("pname") %>' />
        <br />
        pdetails:
        <asp:Label ID="pdetailsLabel" runat="server" Text='<%=# Bind("pdetails") %>'
/>

        <br />
        price:
        <asp:Label ID="priceLabel" runat="server" Text='<%=# Bind("price") %>' />
        <br />
        quantity:
        <asp:Label ID="quantityLabel" runat="server" Text='<%=# Bind("quantity") %>'
/>

        <br />

    </ItemTemplate>
</asp:FormView>
    <asp:SqlDataSource ID="SqlDataSource3" runat="server" ConnectionString="<%=
ConnectionString:prodConString %>" SelectCommand="SELECT * FROM
[productDetails]"></asp:SqlDataSource>
    <br />
    <asp:Label ID="Label5" runat="server" Font-Bold="True" Font-Italic="True" Font-
Size="Large" Text="Grid View Control"></asp:Label>
    <br />
    <br />
    <asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"
DataKeyNames="pid" DataSourceID="SqlDataSource4">
        <Columns>
            <asp:BoundField DataField="pid" HeaderText="pid" ReadOnly="True"
SortExpression="pid" />
            <asp:BoundField DataField="pname" HeaderText="pname"
SortExpression="pname" />
            <asp:BoundField DataField="pdetails" HeaderText="pdetails"
SortExpression="pdetails" />
            <asp:BoundField DataField="price" HeaderText="price" SortExpression="price"
/>
            <asp:BoundField DataField="quantity" HeaderText="quantity"
SortExpression="quantity" />
        </Columns>
    </asp:GridView>
    <asp:SqlDataSource ID="SqlDataSource4" runat="server" ConnectionString="<%=
ConnectionString:prodConString %>" SelectCommand="SELECT * FROM
[productDetails]"></asp:SqlDataSource>
    <br />
    <br />
    <asp:Label ID="Label6" runat="server" Font-Bold="True" Font-Italic="True" Font-
Size="Large" Text="List View Control"></asp:Label>
    <br />

```

```

        <br />
        <asp:ListView ID="ListView1" runat="server" DataKeyNames="pid"
DataSourceID="SqlDataSource5">
        <AlternatingItemTemplate>
        <td runat="server" style="background-color:#FAFAD2; color: #284775;">pid:
        <asp:Label ID="pidLabel" runat="server" Text='<%# Eval("pid") %>' />
        <br />
        pname:
        <asp:Label ID="pnameLabel" runat="server" Text='<%# Eval("pname") %>'
/>

        <br />
        pdetails:
        <asp:Label ID="pdetailsLabel" runat="server" Text='<%# Eval("pdetails")
%>' />

        <br />
        price:
        <asp:Label ID="priceLabel" runat="server" Text='<%# Eval("price") %>' />
        <br />
        quantity:
        <asp:Label ID="quantityLabel" runat="server" Text='<%# Eval("quantity")
%>' />

        <br />
        </td>
        </AlternatingItemTemplate>
        <EditItemTemplate>
        <td runat="server" style="background-color:#FFCC66; color: #000080;">pid:
        <asp:Label ID="pidLabel1" runat="server" Text='<%# Eval("pid") %>' />
        <br />
        pname:
        <asp:TextBox ID="pnameTextBox" runat="server" Text='<%# Bind("pname")
%>' />

        <br />
        pdetails:
        <asp:TextBox ID="pdetailsTextBox" runat="server" Text='<%#
Bind("pdetails") %>' />
        <br />
        price:
        <asp:TextBox ID="priceTextBox" runat="server" Text='<%# Bind("price")
%>' />

        <br />
        quantity:
        <asp:TextBox ID="quantityTextBox" runat="server" Text='<%#
Bind("quantity") %>' />
        <br />
        <asp:Button ID="UpdateButton" runat="server" CommandName="Update"
Text="Update" />
        <asp:Button ID="CancelButton" runat="server" CommandName="Cancel"
Text="Cancel" />
        </td>
        </EditItemTemplate>
        <EmptyDataTemplate>

```



```

        <table style="background-color: #FFFFFF;border-collapse: collapse;border-
color: #999999;border-style:none;border-width:1px;">
            <tr>
                <td>No data was returned.</td>
            </tr>
        </table>
    </EmptyDataTemplate>
    <InsertItemTemplate>
        <td runat="server" style="">pid:
            <asp:TextBox ID="pidTextBox" runat="server" Text='<%# Bind("pid") %>'
/>

            <br />pname:
            <asp:TextBox ID="pnameTextBox" runat="server" Text='<%# Bind("pname")
%>' />

            <br />pdetails:
            <asp:TextBox ID="pdetailsTextBox" runat="server" Text='<%#
Bind("pdetails") %>' />
            <br />price:
            <asp:TextBox ID="priceTextBox" runat="server" Text='<%# Bind("price")
%>' />

            <br />quantity:
            <asp:TextBox ID="quantityTextBox" runat="server" Text='<%#
Bind("quantity") %>' />
            <br />
            <asp:Button ID="InsertButton" runat="server" CommandName="Insert"
Text="Insert" />
            <asp:Button ID="CancelButton" runat="server" CommandName="Cancel"
Text="Clear" />
        </td>
    </InsertItemTemplate>
    <ItemTemplate>
        <td runat="server" style="background-color:#FFFBD6; color: #333333;">pid:
            <asp:Label ID="pidLabel" runat="server" Text='<%# Eval("pid") %>' />
            <br />
            pname:
            <asp:Label ID="pnameLabel" runat="server" Text='<%# Eval("pname") %>'
/>

            <br />
            pdetails:
            <asp:Label ID="pdetailsLabel" runat="server" Text='<%# Eval("pdetails")
%>' />

            <br />
            price:
            <asp:Label ID="priceLabel" runat="server" Text='<%# Eval("price") %>' />
            <br />
            quantity:
            <asp:Label ID="quantityLabel" runat="server" Text='<%# Eval("quantity")
%>' />

            <br />
        </td>
    </ItemTemplate>

```

```

<LayoutTemplate>
    <table runat="server" border="1" style="background-color: #FFFFFF;border-
collapse: collapse;border-color: #999999;border-style:none;border-width:1px;font-family:
Verdana, Arial, Helvetica, sans-serif;">
        <tr id="itemPlaceholderContainer" runat="server">
            <td id="itemPlaceholder" runat="server"></td>
        </tr>
    </table>
    <div style="text-align: center;background-color: #FFCC66; font-family:
Verdana, Arial, Helvetica, sans-serif;color: #333333;">
    </div>
</LayoutTemplate>
<SelectedItemTemplate>
    <td runat="server" style="background-color:#FFCC66; font-weight: bold;color:
#000080;">pid:
        <asp:Label ID="pidLabel" runat="server" Text='<# Eval("pid") %>' />
        <br />
        pname:
        <asp:Label ID="pnameLabel" runat="server" Text='<# Eval("pname") %>'
/>
        <br />
        pdetails:
        <asp:Label ID="pdetailsLabel" runat="server" Text='<# Eval("pdetails")
%>' />
        <br />
        price:
        <asp:Label ID="priceLabel" runat="server" Text='<# Eval("price") %>' />
        <br />
        quantity:
        <asp:Label ID="quantityLabel" runat="server" Text='<# Eval("quantity")
%>' />
        <br />
    </td>
</SelectedItemTemplate>
</asp:ListView>
    <asp:SqlDataSource ID="SqlDataSource5" runat="server" ConnectionString="<# $
ConnectionStrings:prodConString %>" SelectCommand="SELECT * FROM
[productDetails]"></asp:SqlDataSource>
    <br />
    <br />
    <asp:Label ID="Label12" runat="server" Font-Bold="True" Font-Italic="True" Font-
Size="Large" Text="Repeater Control"></asp:Label>
    <br />
    <br />
    <asp:Repeater ID="Repeater1" runat="server" DataSourceID="SqlDataSource6">

<HeaderTemplate>
    <table border="1">
        <tr>
            <th scope="col" style="width:90px">
                ProdID

```

```

        </th>
        <th scope="col" style="width:90px">
        ProdName
        </th>
        <th scope="col" style="width:90px">
        ProdDetails
        </th>
        <th scope="col" style="width:90px">
        ProdPrice
        </th>
        <th scope="col" style="width:90px">
        ProdQuantity
        </th>
    </tr>

    <br />
</HeaderTemplate>
<ItemTemplate>
    <tr>
        <td> <asp:Label ID="pidLabel" runat="server" Text='<%# Eval("pid") %>'
/></td>
        <td><asp:Label ID="pnameLabel" runat="server" Text='<%# Eval("pname")
%>' /></td>
        <td><asp:Label ID="pdetailsLabel" runat="server" Text='<%# Eval("pdetails")
%>' /></td>
        <td><asp:Label ID="priceLabel" runat="server" Text='<%# Eval("price") %>'
/></td>
        <td><asp:Label ID="quantityLabel" runat="server" Text='<%# Eval("quantity")
%>' /></td>
    </tr>
</ItemTemplate>
<FooterTemplate>
</table>
</FooterTemplate>
</asp:Repeater >

    <asp:SqlDataSource ID="SqlDataSource6" runat="server" ConnectionString="<%%$
ConnectionStrings:prodConString %>" SelectCommand="SELECT * FROM
[productDetails]"></asp:SqlDataSource>
    <br />

    <br />
</div>
</form>
</body>
</html>

```

## • OUTPUT :

### Data Bound Controls

#### Data List Control

pid: 101  
 pname: Pencil  
 pdetails: Apsara  
 price: 10  
 quantity: 50

pid: 102  
 pname: NoteBook  
 pdetails: CLASSMATE  
 price: 150  
 quantity: 100

pid: 103  
 pname: Soap  
 pdetails: DOVE  
 price: 50  
 quantity: 50

pid: 104  
 pname: Laptop  
 pdetails: DELL  
 price: 50000  
 quantity: 10

pid: 105  
 pname: Speaker  
 pdetails: SONY  
 price: 20000  
 quantity: 5

#### Details View Control

pid	101
pname	Pencil
pdetails	Apsara
price	10
quantity	50

#### Form View Control

pid: 101  
 pname: Pencil  
 pdetails: Apsara  
 price: 10  
 quantity: 50

#### Grid View Control

pid	pname	pdetails	price	quantity
101	Pencil	Apsara	10	50
102	NoteBook	CLASSMATE	150	100
103	Soap	DOVE	50	50
104	Laptop	DELL	50000	10
105	Speaker	SONY	20000	5

#### List View Control

pid: 101 pname: Pencil pdetails: Apsara price: 10 quantity: 50	pid: 102 pname: NoteBook pdetails: CLASSMATE price: 150 quantity: 100	pid: 103 pname: Soap pdetails: DOVE price: 50 quantity: 50	pid: 104 pname: Laptop pdetails: DELL price: 50000 quantity: 10	pid: 105 pname: Speaker pdetails: SONY price: 20000 quantity: 5
--	---	--	---	---

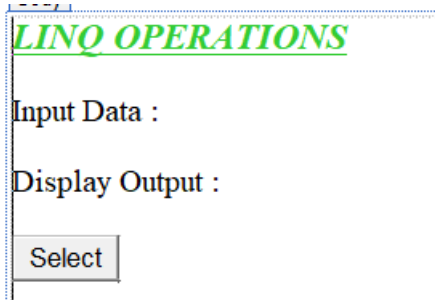
#### Repeater Control

ProdID	ProdName	ProdDetails	ProdPrice	ProdQuantity
101	Pencil	Apsara	10	50
102	NoteBook	CLASSMATE	150	100
103	Soap	DOVE	50	50
104	Laptop	DELL	50000	10
105	Speaker	SONY	20000	5

**Que.5. Design asp.net web form to search all words with length is less than five characters from string array using LINQ.**

**Ans:**

- **Code –**  
**WF\_LINQ.aspx**



```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WF_LINQ.aspx.cs"
Inherits="PracticalNo03.WF_LINQ" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div style="height: 268px">
```

```
<asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Italic="True" Font-
Size="Large" Font-Underline="True" ForeColor="#33CC33" Text="LINQ
OPERATIONS"></asp:Label>
```

```
<br />
```

```
<br />
```

```
<asp:Label ID="lblInputData" runat="server" Text="Input Data : "></asp:Label>
```

```
<br />
```

```
<br />
```

```
<asp:Label ID="lblAns" runat="server" Text="Display Output : "></asp:Label>
```

```
<br />
```

```
<br />
```

```
<asp:Button ID="btnSelect" runat="server" OnClick="btnSelect_Click" Text="Select" />
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

**WF\_LINQ.aspx.cs**

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

```

using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace PracticalNo03
{
    public partial class WF_LINQ : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

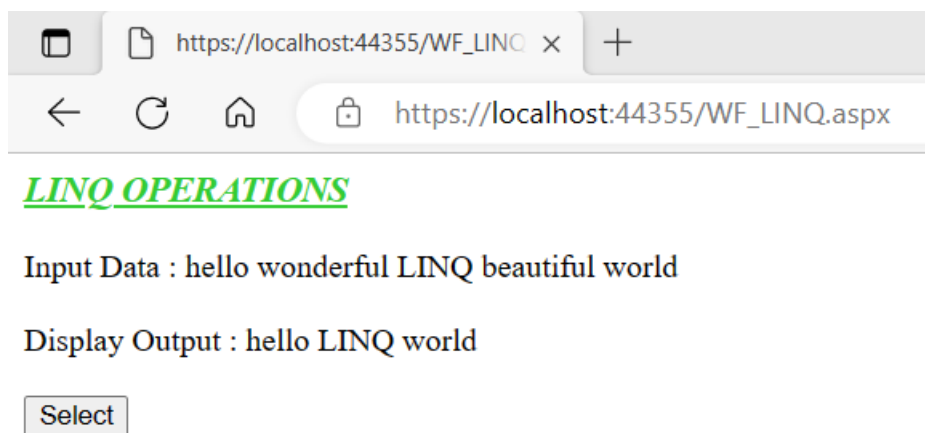
        protected void btnSelect_Click(object sender, EventArgs e)
        {
            //Specify the data Source
            string[] my_words = { "hello", "wonderful", "LINQ", "beautiful", "world" };

            foreach(string s in my_words)
            {
                lblInputData.Text = lblInputData.Text + " " + s;
            }
            //define the query expression.//Get only shorts word
            var shortWords = from word in my_words where word.Length <= 5 select word;

            //Execute the query.//Print each word out
            foreach(var word in shortWords)
            {
                lblAns.Text = lblAns.Text + " " + word;
            }
        }
    }
}

```

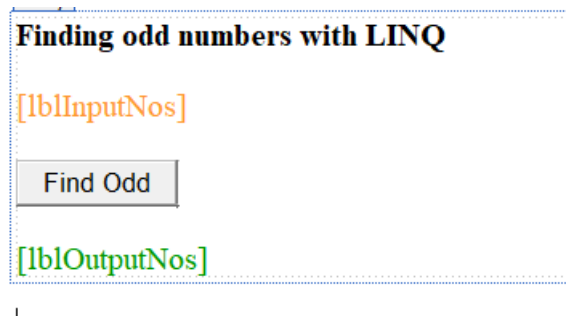
- **OUTPUT :**



## Que.6. Design asp.net web form to find odd numbers from integer Array using LINQ.

Ans:

- Code –  
WF\_OddNum\_LINQ.aspx



```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WF_OddNum_LINQ.aspx.cs"
Inherits="PracticalNo03.WF_OddNum_LINQ" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Odd Numbers</title>
```

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<asp:Label ID="lblHeading" runat="server" Font-Bold="True" Font-Size="Medium"
Text="Finding odd numbers with LINQ"></asp:Label>
```

```
<br />
```

```
<br />
```

```
<asp:Label ID="lblInputNos" runat="server" ForeColor="#FF9933"></asp:Label>
```

```
<br />
```

```
<br />
```

```
<asp:Button ID="btnFindOdd" runat="server" OnClick="btnFindOdd_click" Text="Find
Odd" />
```

```
<br />
```

```
<br />
```

```
<asp:Label ID="lblOutputNos" runat="server" ForeColor="#009900"></asp:Label>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

## WF\_OddNum\_LINQ.aspx.cs

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

```

using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace PracticalNo03
{
    public partial class WF_OddNum_LINQ : System.Web.UI.Page
    {
        int[] numbers = new int[7] { 1, 2, 3, 4, 5, 6, 7 };
        protected void Page_Load(object sender, EventArgs e)
        {
            lblInputNos.Text = "Input Numbers : ";

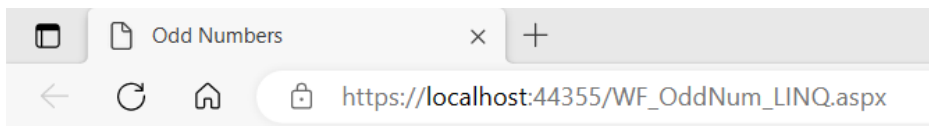
            foreach (int n in numbers)
            {
                lblInputNos.Text = lblInputNos.Text + " " + n;
            }
        }

        protected void btnFindOdd_click(object sender, EventArgs e)
        {
            IEnumerable<int> numQuery = from num in numbers
                                      where (num % 2) != 0
                                      select num;

            lblOutputNos.Text = "Odd Numbers: ";
            foreach (int n in numQuery)
            { lblOutputNos.Text = lblOutputNos.Text + " " + n.ToString(); }
        }
    }
}

```

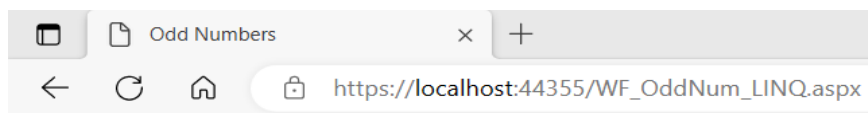
## • OUTPUT :



### Finding odd numbers with LINQ

Input Numbers : 1 2 3 4 5 6 7

Find Odd



### Finding odd numbers with LINQ

Input Numbers : 1 2 3 4 5 6 7

Find Odd

Odd Numbers: 1 3 5 7



**Que.7. Design asp.net web application to perform add, update, delete and search operations on emp\_info Table using LINQ to SQL.**

**Ans:**

- **Code –**  
**WF\_LINQ\_DB.aspx**

## LINQ TO SQL

Enter Your Roll no :

Enter Your Name :

Enter Your Address :

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

Message

EmpDBModel1.edmx [Diagram1]

The diagram shows an entity named 'emp' with the following properties: eid (primary key), ename, designation, and salary. The 'Navigation Properties' section is also visible.

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WF_LINQ_DB.aspx.cs"
Inherits="PracticalNo03.WF_LINQ_DB" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Size="X-Large"
ForeColor="#FF66FF" Text=" LINQ TO SQL"></asp:Label>
```

```
<br />
```

```
<br />
```

```
<asp:Label ID="Label2" runat="server" Text="Enter Your Roll no : "></asp:Label>
```

```
<asp:TextBox ID="txtRollNo" runat="server" Height="19px"></asp:TextBox>
```

```
<br />
```

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



```

DataClasses1DataContext dc = new DataClasses1DataContext();
public void clearTextBox()
{
    txtRollNo.Text = " ";
    txtName.Text = " ";
    txtAddress.Text = " ";
}
public void showData()
{
    try
    {
        var q = from a in dc.GetTable<stud>() select a;
        gvStudDetails.DataSource = q;
        gvStudDetails.DataBind();
    }
    catch(Exception ex)
    {
        lblMessage.Text = "Exception caught!! " + ex.Message;
    }
}

protected void Page_Load(object sender, EventArgs e)
{
    showData();
}

protected void btnAdd_Click(object sender, EventArgs e)
{
    try
    {
        stud objAdd = new stud();

        objAdd.rollno = Convert.ToByte(txtRollNo.Text);
        objAdd.name = Convert.ToString(txtName.Text);
        objAdd.address = Convert.ToString(txtAddress.Text);

        dc.studs.InsertOnSubmit(objAdd);
        dc.SubmitChanges();
        lblMessage.Text = "Record Inserted Successfully!!";
    }
    catch(Exception ex)
    {
        lblMessage.Text = "Exception caught!! " + ex.Message;
    }
    finally
    {
        clearTextBox();
        showData();
    }
}

protected void btnDelete_Click(object sender, EventArgs e)
{
    try
    {

```

```

        stud objDel = dc.studs.Single(stud => stud.rollno == Convert.ToInt16(txtRollNo.Text));

        dc.studs.DeleteOnSubmit(objDel);

        dc.SubmitChanges();
        lblMessage.Text = "Record Delete Successfully!!";

    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception caught!! " + ex.Message;
    }
    finally
    {
        clearTextBox();
        showData();
    }
}

protected void btnUpdate_Click(object sender, EventArgs e)
{
    try
    {
        stud objUpdate = dc.studs.Single(stud => stud.rollno == Convert.ToInt16(txtRollNo.Text));
        //Field which will be update
        objUpdate.name = Convert.ToString(txtName.Text);
        objUpdate.address = Convert.ToString(txtAddress.Text);

        dc.SubmitChanges();
        clearTextBox();
        lblMessage.Text = "Record Update Successfully!!";
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception caught!! " + ex.Message;
    }
    finally
    {
        showData();
    }
}

protected void btnSearch_Click(object sender, EventArgs e)
{
    try
    {

        stud objSearch = dc.studs.Single(stud => stud.rollno == Convert.ToInt16(txtRollNo.Text));
        txtRollNo.Text = Convert.ToString(objSearch.rollno);
        txtName.Text = objSearch.name;
        txtAddress.Text = objSearch.address;
        lblMessage.Text = "Record Found Successfully";
    }
}

```

- **OUTPUT :**

Add Delete Update Search

**Que.8. Design asp.net web application to perform add, update, delete and search operations on ProductDetails Table using Entity Framework.**

**Ans:**

- **Code –**

### **WF\_ProductDetailsEntityFramework.aspx**

**Product Information**

Enter Product id :

Enter Product Name :

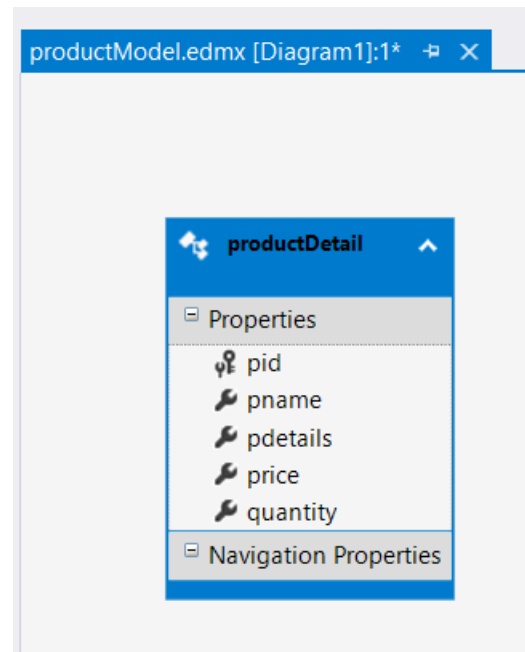
Enter Product Details :

Enter Product Price :

Enter Product Quantity :

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

Message



```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WF_ProductDetailsEntityFramework.aspx.cs"
Inherits="PracticalNo03.WF_ProductDetailsEntityFramework" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Product Details</title>
```

```
</head>
```

```
<body>
```

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

```
<div>
```

```
<asp:Label ID="Label1" runat="server" Text="Product Information" Font-Size="X-Large"
ForeColor="#CC33FF"></asp:Label>
```

```
<br />
```

```
<br />
```

```
<asp:Label ID="Label2" runat="server" Text="Enter Product id : "></asp:Label>
```

```
<asp:TextBox ID="txtPid" runat="server" Height="19px"></asp:TextBox>
```

```
<br />
```

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

    <asp:TextBox ID="txtPname" runat="server" style="margin-bottom: 3px"
Height="20px"></asp:TextBox>

    <br />

    <asp:Label ID="Label4" runat="server" Text="Enter Product Details : "></asp:Label>
    <asp:TextBox ID="txtDetails" runat="server"></asp:TextBox>

    <br />
    <asp:Label ID="Label5" runat="server" Text="Enter Product Price : "></asp:Label>
    &nbspsp;<asp:TextBox ID="txtPrice" runat="server" Width="179px"></asp:TextBox>

<br />
    <asp:Label ID="Label6" runat="server" Text="Enter Product Quantity : "></asp:Label>
    &nbspsp;
    <asp:TextBox ID="txtQuantity" runat="server" Width="179px"></asp:TextBox>

    <br />
    <br />
    <asp:GridView ID="gvProductDetails" runat="server">
</asp:GridView>
    <br />

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

    <br />
    <br />

    <asp:Button ID="btnAdd" runat="server" Text="Add" OnClick="btnAdd_Click" />

    &nbspsp;&nbspsp;&nbspsp;
    <asp:Button ID="btnDelete" runat="server" Text="Delete" OnClick="btnDelete_Click" />
&nbspsp;
    <asp:Button ID="btnUpdate" runat="server" Text="Update" OnClick="btnUpdate_Click" />
&nbspsp;
    <asp:Button ID="btnSearch" runat="server" Text="Search" OnClick="btnSearch_Click" />
&nbspsp;

    <br />
    <br />
</div>
</form>
</body>
</html>
```

## WF\_ProductDetailsEntityFramework.aspx.cs

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

namespace PracticalNo03
{
    public partial class WF_ProductDetailsEntityFramework : System.Web.UI.Page
    {
        productDBEntities1 p1 = new productDBEntities1();
        public void clearTextBox()
        {
            txtPid.Text = " ";
            txtPname.Text = " ";
            txtDetails.Text = " ";
            txtPrice.Text = " ";
            txtQuantity.Text = " ";
        }
        public void showData()
        {
            try
            {
                gvProductDetails.DataSource = p1.productDetails.ToList();
                gvProductDetails.DataBind();
            }
            catch (Exception ex)
            {
                lblMessage.Text = "Exception Caught!!" + ex.Message;
            }
        }
        protected void Page_Load(object sender, EventArgs e)
        {
            showData();
        }

        protected void btnAdd_Click(object sender, EventArgs e)
        {
            try
            {
                productDetail productObjAdd = new productDetail();

                productObjAdd.pid = (byte)Convert.ToInt32(txtPid.Text);
                productObjAdd.pname = txtPname.Text;
                productObjAdd.pdetails = txtDetails.Text;
                productObjAdd.price = Convert.ToInt32(txtPrice.Text);
                productObjAdd.quantity = Convert.ToInt32(txtQuantity.Text);
            }
        }
    }
}
```



```

        p1.productDetails.Add(productObjAdd);
        p1.SaveChanges();
        lblMessage.Text = "Record Added Successfully!!!";
        showData();
        clearTextBox();
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception Caught!!" + ex.Message;
    }
}

protected void btnDelete_Click(object sender, EventArgs e)
{
    try
    {
        productDetail productObjDelete = p1.productDetails.Find(Convert.ToInt32(txtPid.Text));
        if (productObjDelete != null)
        {
            p1.productDetails.Remove(productObjDelete);
            p1.SaveChanges();

            lblMessage.Text = "Record Deleted Successfully!!!";

            showData();
            clearTextBox();
        }
        else
        {
            lblMessage.Text = "Record Not Found!!!";
        }
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception Caught!!" + ex.Message;
    }
}

protected void btnUpdate_Click(object sender, EventArgs e)
{
    try
    {
        productDetail productObjUpdate = p1.productDetails.Find(Convert.ToInt32(txtPid.Text));
        if (productObjUpdate != null)
        {
            productObjUpdate.pname = txtPname.Text;
            productObjUpdate.pdetails = txtDetails.Text;
            productObjUpdate.price = Convert.ToInt32(txtPrice.Text);
            productObjUpdate.quantity = Convert.ToInt32(txtQuantity.Text);

            p1.SaveChanges();

            lblMessage.Text = "Record Updated Successfully!!!";
            showData();
            clearTextBox();
        }
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception Caught!!" + ex.Message;
    }
}

```

```

        }
        else
        {
            lblMessage.Text = "Record Not Found!";
        }
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception Caught!!" + ex.Message;
    }
}

protected void btnSearch_Click(object sender, EventArgs e)
{
    try
    {
        productDetail productObjSearch = p1.productDetails.Find(Convert.ToInt32(txtPid.Text));
        if (productObjSearch != null)
        {
            txtPid.Text = Convert.ToString(productObjSearch.pid);
            txtPname.Text = productObjSearch.pname;
            txtDetails.Text = productObjSearch.pdetails;
            txtPrice.Text = Convert.ToString(productObjSearch.price);
            txtQuantity.Text = Convert.ToString(productObjSearch.quantity);
            p1.SaveChanges();

            lblMessage.Text = "Record Found Successfully!!";
            showData();

        }
        else
        {
            lblMessage.Text = "Record Not Found!";
        }
    }
    catch (Exception ex)
    {
        lblMessage.Text = "Exception Caught!!" + ex.Message;
    }
}
}

```

## • OUTPUT :

