PRACTICAL NO.08

Write the program for the following:

a. Create a web application for inserting and deleting records from a database. (Using Execute Non Query). (Connected)

Code:

Aspx Code:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs" Inherits="DB.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:TextBox ID="TextBox1" runat="server" style="top: 69px; left: 102px; position: absolute; height: 25px; width: 168px"></asp:TextBox>
            <asp:TextBox ID="TextBox2" runat="server" style="top: 119px; left: 102px; position: absolute; height: 25px; width: 168px"></asp:TextBox>
            <asp:TextBox ID="TextBox3" runat="server" style="top: 169px; left: 104px; position: absolute; height: 25px; width: 168px"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" style="top: 228px; left: 44px; position: absolute; height: 29px; width: 68px" Text="Insert" />
            <asp:Label ID="Label2" runat="server" style="top: 76px; left: 16px; position: absolute; height: 22px; width: 54px" Text="S_ID :"></asp:Label>
            <asp:Label ID="Label3" runat="server" style="top: 127px; left: 11px; position: absolute; height: 22px; width: 57px" Text="Name :"></asp:Label>
            <asp:Label ID="Label4" runat="server" style="top: 174px; left: 6px; position: absolute; height: 22px; width: 81px" Text="Address :"></asp:Label>
            <asp:Label ID="Label5" runat="server" style="top: 300px; left: 18px; position: absolute; height: 22px; width: 270px"></asp:Label>
        </div>
        <asp:Label ID="Label1" runat="server" style="top: 33px; left: 50px; position: absolute; height: 22px; width: 167px" Text="Enter Records"></asp:Label>
        <asp:Button ID="Button2" runat="server" OnClick="Button2_Click" style="top: 227px; left: 176px; position: absolute; height: 29px; width: 68px" Text="Delete" />
    </form>
</body>
</html>
```

C# Code:

```csharp
using System;
using System.Data;
using System.Data.SqlClient;
namespace DB
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        SqlConnection con = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\TANMAY\source\repos\DB\App_Data\SRM.mdf;Integrated Security=True");
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            SqlCommand cmd1 = new SqlCommand("insert into Stud(s_id,name,address) values ("+ Convert.ToInt16(TextBox1.Text) +",'"+ TextBox2.Text +"','"+ TextBox3.Text +"');", con);
            con.Open();
            cmd1.ExecuteNonQuery();
            Label5.Text = "Record Inserted Successfully!!!";
            con.Close();
```
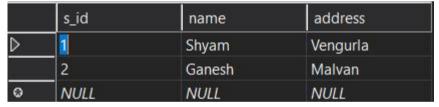
```
    }

    protected void Button2_Click(object sender, EventArgs e)
    {
        SqlCommand cmd1 = new SqlCommand("delete from Stud where s_id=(" +
Convert.ToInt16(TextBox1.Text) + ");", con);
        con.Open();
        cmd1.ExecuteNonQuery();
        Label5.Text = "Record Deleted Successfully!!!";
        con.Close();
    }
  }
}
```

Output:
For insert:

Enter Records

S_ID :   2

Name :   Ganesh

Address :   Malvan

Insert   Delete

Record Inserted Successfully!!!

	s_id	name	address
▷	1	Shyam	Vengurla
	2	Ganesh	Malvan
⊙	NULL	NULL	NULL

For delete:

Enter Records

S_ID :   1

Name :

Address :

Insert   Delete

Record Deleted Successfully!!!

	s_id	name	address
▷	2	Ganesh	Malvan
⊙	NULL	NULL	NULL

b. Create a web application for user defined exception handling

Code:

Aspx Code:

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

<!DOCTYPE html>
<html>
<head>
    <title>Vote Eligibility Check</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <h2>Check Voting Eligibility</h2>
            <asp:Label ID="Label1" runat="server" Text="Enter Your Age: "></asp:Label>
            <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
            <asp:Button ID="Button1" runat="server" Text="Check Eligibility"
OnClick="Button1_Click" />
            <br />
            <asp:Label ID="Label2" runat="server" ForeColor="Red"></asp:Label>
        </div>
    </form>
</body>
</html>
```

C# Code:

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

public class InvalidAgeException : Exception
{
    public InvalidAgeException(string message) : base(message)
    {
    }
}


namespace Exception_Handling_User
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            try
            {
                int age = Convert.ToInt32(TextBox1.Text);
                if (age < 18)
                {
                    throw new InvalidAgeException("You are not eligible to vote. Minimum age is
18.");
                }
                Label2.Text = "You are eligible to vote!";
            }
            catch (InvalidAgeException ex)
            {
```

```
            Label2.Text = ex.Message;
        }
        catch (FormatException)
        {
            Label2.Text = "Please enter a valid number for age.";
        }
        catch (Exception ex)
        {
            Label2.Text = $"An error occurred: {ex.Message}";
        }
    }
  }
}
```

Output:

Check Voting Eligibility

Enter Your Age: `19`   [Check Eligibility]
You are eligible to vote!

Check Voting Eligibility

Enter Your Age: `10`   [Check Eligibility]
You are not eligible to vote. Minimum age is 18.