

2.To Study & Create Presentation Layer using HTML & CSS using visual studio 2019

Certainly! Visual Studio 2019 is a great tool for web development, and it provides a convenient environment for creating HTML and CSS files. Here's a step-by-step guide on how to create a presentation layer using HTML and CSS in Visual Studio 2019:

1. Install Visual Studio 2019: If you haven't already, download and install Visual Studio 2019 from the official Microsoft website.

1. Create a New Project: Open Visual Studio 2019 and create a new project by following these steps:

- Go to "File" > "New" > "Project..."
- In the "Create a new project" window, select "Web" from the left sidebar.
- Choose "ASP.NET Web Application" as the project template.
- Enter a name for your project and choose a location to save it.
- Click "Create."

2. Choose Web Application Template: In the "Create a new ASP.NET Core Web Application" window:

- Select "Empty" template. This will give you a clean slate to build your presentation layer.

3. Add HTML and CSS Files: Right-click on the "wwwroot" folder in the Solution Explorer and select "Add" > "New Folder." Name the folder "css" to store your CSS files.

Right-click on the "css" folder and select "Add" > "New Item..." In the "Add New Item" dialog, select "Web" from the left sidebar and choose "Style Sheet (CSS)" from the available templates. Name the file "styles.css" and click "Add."

Next, right-click on the "wwwroot" folder again and select "Add" > "New Item..."

- Choose "HTML Page" from the available templates. Name the file "index.html" and click "Add."

4. Edit HTML and CSS:

Double-click on "index.html" to open it in the code editor.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="site.css">
    <title>Your Presentation</title>
</head>
<body>
    <header>
        <h1>Your Presentation Title</h1>
    </header>
    <nav>
```

```
<!-- Navigation links here -->
</nav>
<main>
    <!-- Main content here -->
</main>
<footer>
    <p>&copy; 2023 Your Name</p>
</footer>
</body>
</html>
```

Similarly open style.css and add css code

```
/* Reset default margin and padding */
```

```
body, h1, h2, h3, p {
    margin: 0;
    padding: 0;
}
```

```
/* Basic styling */
```

```
body {
    font-family: Arial, sans-serif;
    background-color: #f5f5f5;
}
```

```
header {
    background-color: #333;
    color: white;
    padding: 10px;
    text-align: center;
}
```

```
nav {  
    background-color: #444;  
    color: white;  
    padding: 5px;  
    text-align: center;  
}  
  
main {
```

```
    padding: 20px;  
}
```

```
footer {  
    background-color: #333;  
    color: white;  
    text-align: center;  
    padding: 10px;  
}
```

Link CSS to HTML:

1. In the <head> section of your "index.html" file, link the "styles.css" file by adding the following line:<link rel="stylesheet" href="styles.css">
- 2.
3. **Preview in Browser:** Right-click on "index.html" in the Solution Explorer and select "View in Browser" to preview your presentation layer in a web browser.
4. **Make Changes and Refine:** Use Visual Studio's code editor to make changes to your HTML and CSS. You can preview the changes by refreshing the browser.
5. **Responsive Design:** To make your presentation layer responsive, you can add CSS media queries to your "styles.css" file. These queries will apply different styles based on the screen size.

Your Presentation Title

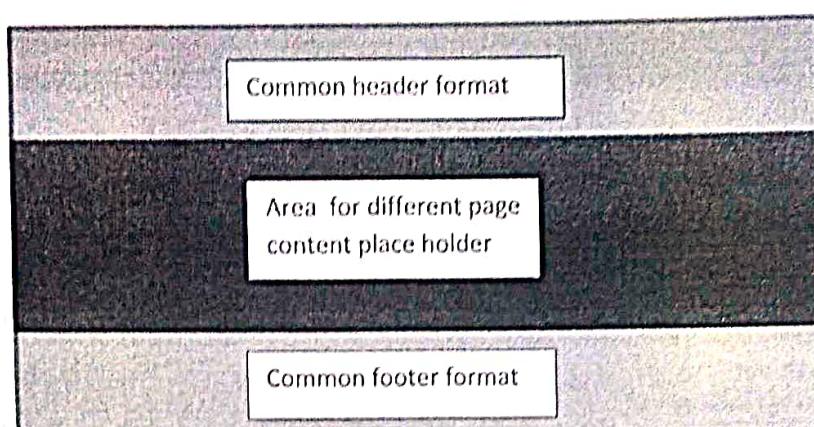


Practical 3.To study and create Master page ,user control etc.

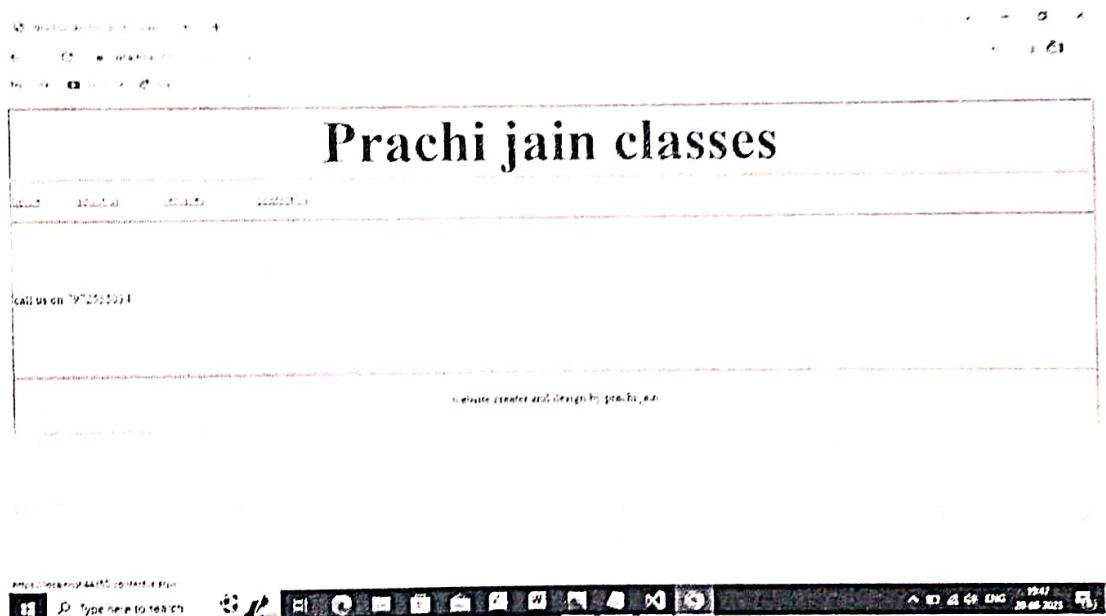
Solution:

What is master page?

a master page is a common page whose content are shared by other pages.we can design the layout of the master page so that other pages can share it.we can have common header and footer through master pages.



Output screen:



Step1:open the visual studio 2019

Step 2:take the new project

Step 3:file->new->project->asp.net web application using c#

Step 4:

Step 5:

Step 6:-right click on mymaster->add->new item->web->webforms->web forms master page->site1.master->add

You will see your master page got inserted

Step 7: now design the layout of the master page

Go to design tab->click on content place holder->table->insert table->4rows,1column->ok->resize the rows->first row act as header(prachi jain classes)->adjust all rows according to output.

Step7:color the row for that set the table then press control button->select row n give green color->second row give yellow color->fourth row yellow color

Coloring done

Step 8:select the table and go to border property:->if not seen then select table tag from source then set border property as 1

Step9:insert the label in row one and text property as prachi jain classes and set size property from property window as 45 and align as centre from menu bar

Step 10:declare or put 4 hyperlink control in row 2 and then set text property as home,,about services,contact us

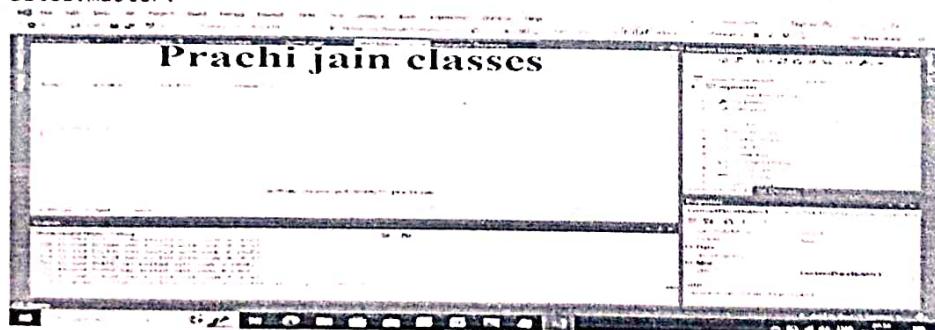
Step10:in last row row 4 type directly website created and design by prachi jain

*Step 11:now your designing done but most important your content place holder should be in row 3rd means in middle dat means ur header footer should be constant with in whole pages with in website for dat

- go to source page of master page dat is site1.master and check ur contenet place holder which is near by head section cut from der and place it here

```
<td class="auto-style4"><asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server"></asp:ContentPlaceHolder>
```

Site1.master:



Source code site1.master:

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"
Inherits="mymaster.Site1" %>

<!DOCTYPE html>

<html>
<head runat="server">
    <title></title>

    <style type="text/css">
        .auto-style1 {
            width: 100%;
        }
        .auto-style2 {
            height: 85px;
            text-align: center;
            background-color: #CCFF99;
        }
        .auto-style3 {
            height: 45px;
            background-color: #FFFFCC;
        }
        .auto-style4 {
            height: 191px;
        }
        .auto-style5 {
            height: 64px;
            text-align: center;
            background-color: #FFFFCC;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>

            <table border="1" class="auto-style1">
                <tr>
                    <td class="auto-style2">
                        <asp:Label ID="Label1" runat="server" Font-Bold="True"
Font-Size="55pt" Text="Prachi jain classes"></asp:Label>
                    </td>
                </tr>
                <tr>
                    <td class="auto-style3">
                        <asp:HyperLink ID="HyperLink1" runat="server"
NavigateUrl="~/home.aspx">home</asp:HyperLink>
                        &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
                        <asp:HyperLink ID="HyperLink2" runat="server"
NavigateUrl="~/aboutus.aspx">about us</asp:HyperLink>
                        &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
                        <asp:HyperLink ID="HyperLink3" runat="server"
NavigateUrl="~/services.aspx">services</asp:HyperLink>
                        &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
                        <asp:HyperLink ID="HyperLink4" runat="server"
NavigateUrl="~/contactus.aspx">contact us</asp:HyperLink>
                    </td>
                </tr>
                <tr>
```

```

        <td class="auto-style4"><asp:ContentPlaceHolder
ID="ContentPlaceHolder1" runat="server">
</asp:ContentPlaceHolder>

</td>
</tr>
<tr>
    <td class="auto-style5">
        <asp:Label ID="Label2" runat="server" Text="website
creator and design by prachi jain"></asp:Label>
    </td>
</tr>
</table>

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

```

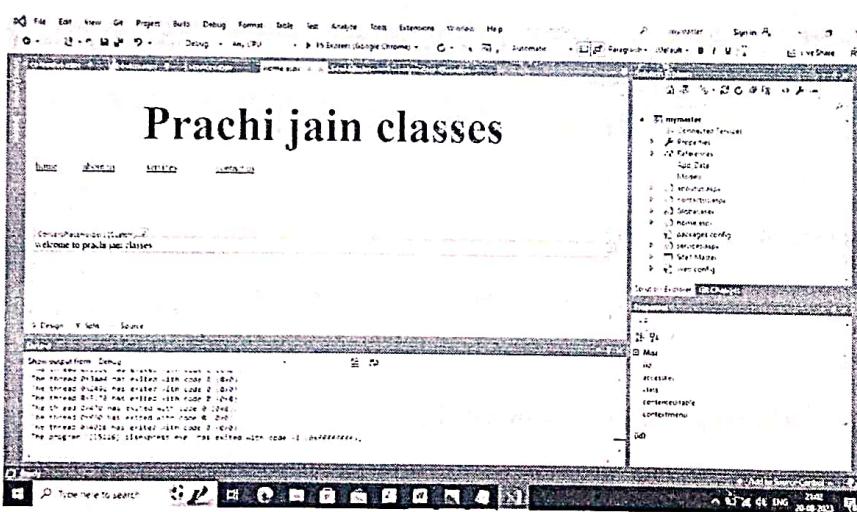
Step 12: now we have to add other web forms with master page for that

Right click on mymaster->add->new item->web form with master page->name:homepage->add

Step 13: as u will click add button another window will open select a master page

Select site1.master->okk

Step 14: add data in home page in design window as show below



Source file of home page:

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="home.aspx.cs" Inherits="mymaster.home" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
<p>
    welcome to prachi jain classes</p>
</asp:Content>

```

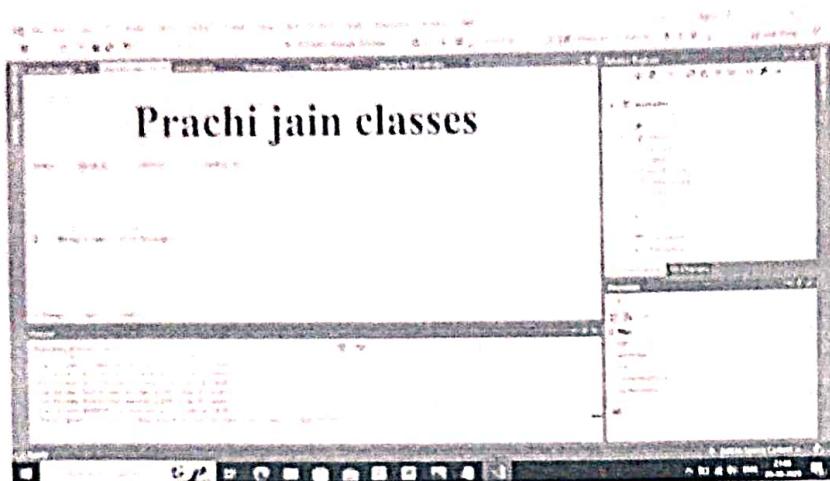
Step 15: now we have to add other web forms again with master page for that

Right click on mymaster->add->new item->web form with master page->name:about us->add

Step 16:as u will click add button another window will open select a master page

Select site1.master->okk

Step17:add data in about us in design window as show below



Code for about us window:

```
<%@ Page Title="" Language="C#" MasterPageFile("~/Site1.Master" AutoEventWireup="true"
CodeBehind="aboutus.aspx.cs" Inherits="mymaster.aboutus" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <p>
        we r offering u many web technologies</p>
</asp:Content>
```

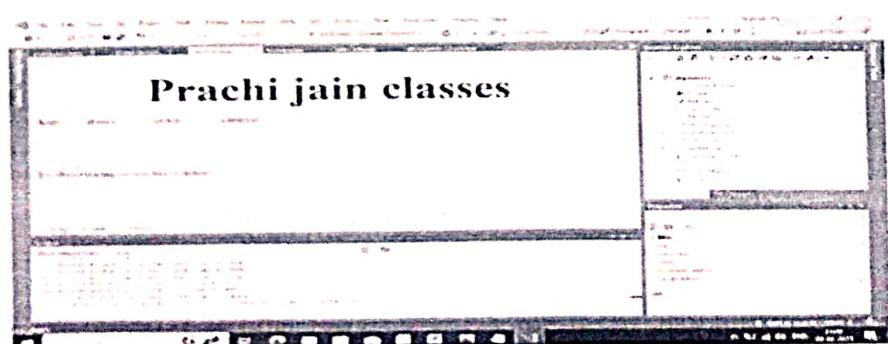
Step 18:now we have to add other web forms again with master page for that

Right click on mymaster->add->new item->web form with master page->name:services->add

Step 19:as u will click add button another window will open select a master page

Select site1.master->okk

Step20:add data in services in design window as show below



```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="services.aspx.cs" Inherits="mymaster.services" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <p>
        we offered teaching services free to students</p>
</asp:Content>

```

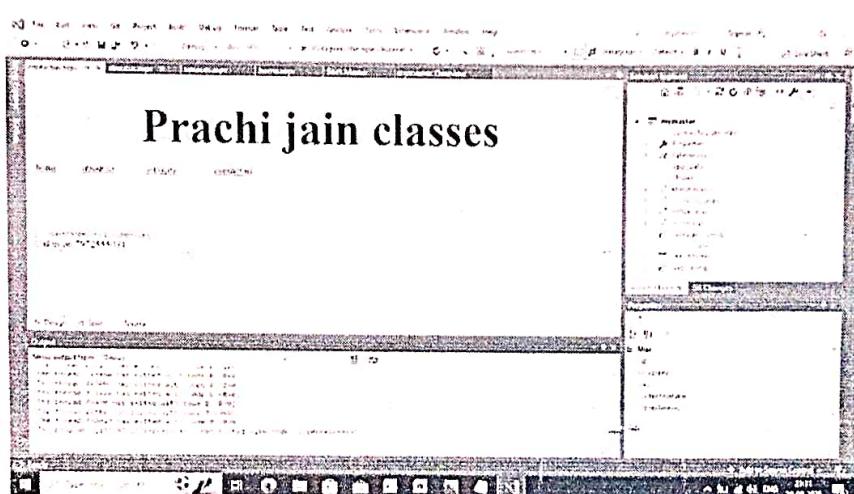
Step 21: now we have to add other web forms again with master page for that

Right click on mymaster->add->new item->web form with master page->name:contact us->add

Step 22: as u will click add button another window will open select a master page

Select site1.master->okk

Step 23: add data in contact us in design window as show below



```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="contactus.aspx.cs" Inherits="mymaster.contactus" %>
<asp:Content ID="Content1" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
    <p>
        call us on 7972555034</p>
</asp:Content>

```

Step 24: now we completed our four pages and they combined with master page

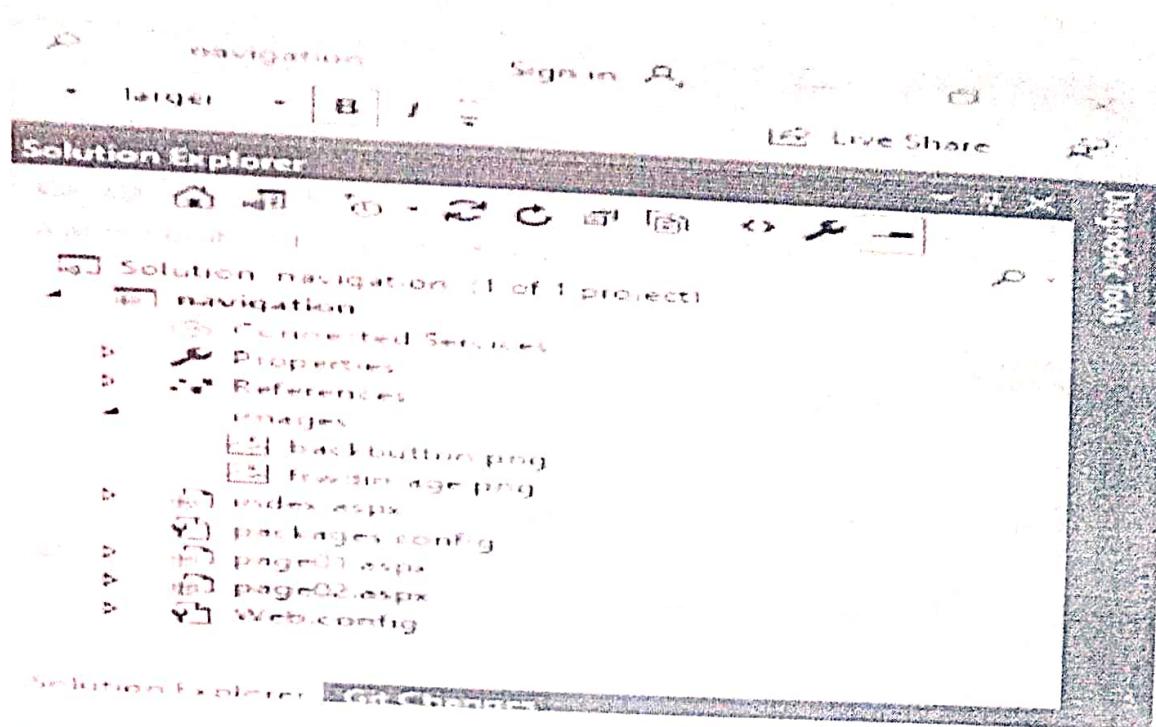
Step 25: now go to the master page and click on home tab(home hyper link tag)->navigation url property from property window->link the pages ->all tabs link one by one

Step 26:- save everything properly

Step 27: run the master page

Navigation to web pages.

Navigation:



Step1:create new project->file->new->empty etc

Step2:project name Navigatio

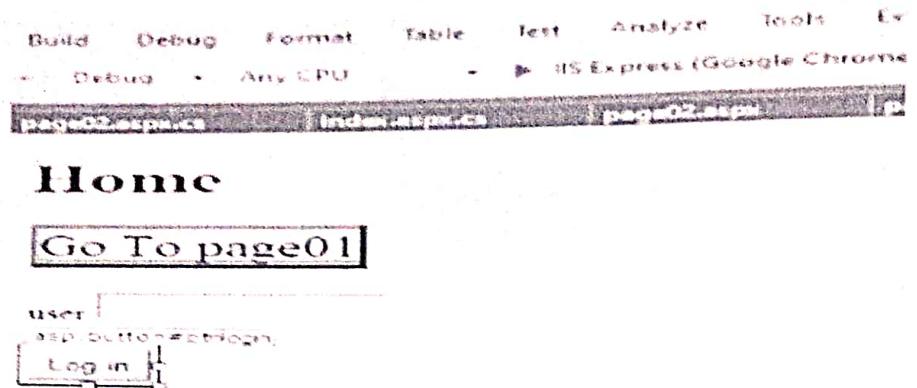
Step3:right click on navigation->select add->newfolder->give it name images->copy two png img in images older

Step4:right click on navigation->add web form->name:index.aspx->ok-><title>Home</title>

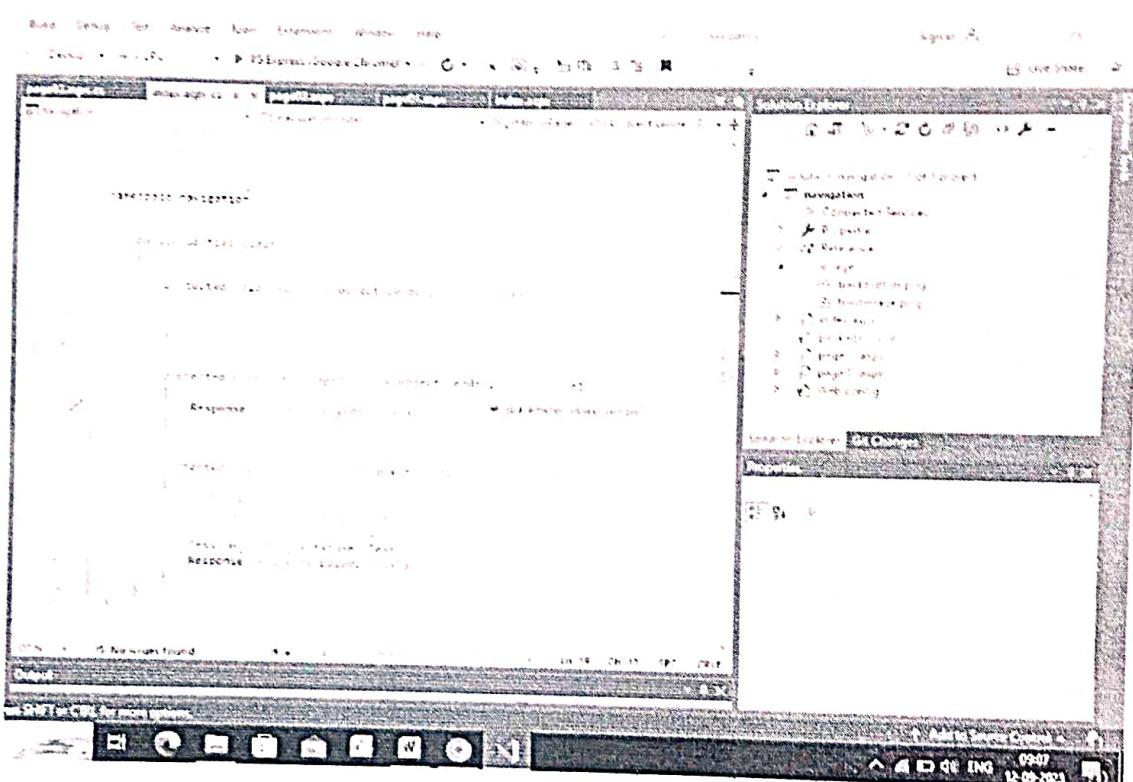
Step5:-right click on navigation->add web form->name:page02.aspx->ok
-><title>page02</title>

Step6:right click on index page->set as start page

Step7:go to design page of index.aspx->write Home->enter->take linkbutton->go to page01
->size->larger->id->lbtnGotopage01->backcolor->green->border->orange->borderstyle
->outset->text->gotopage01



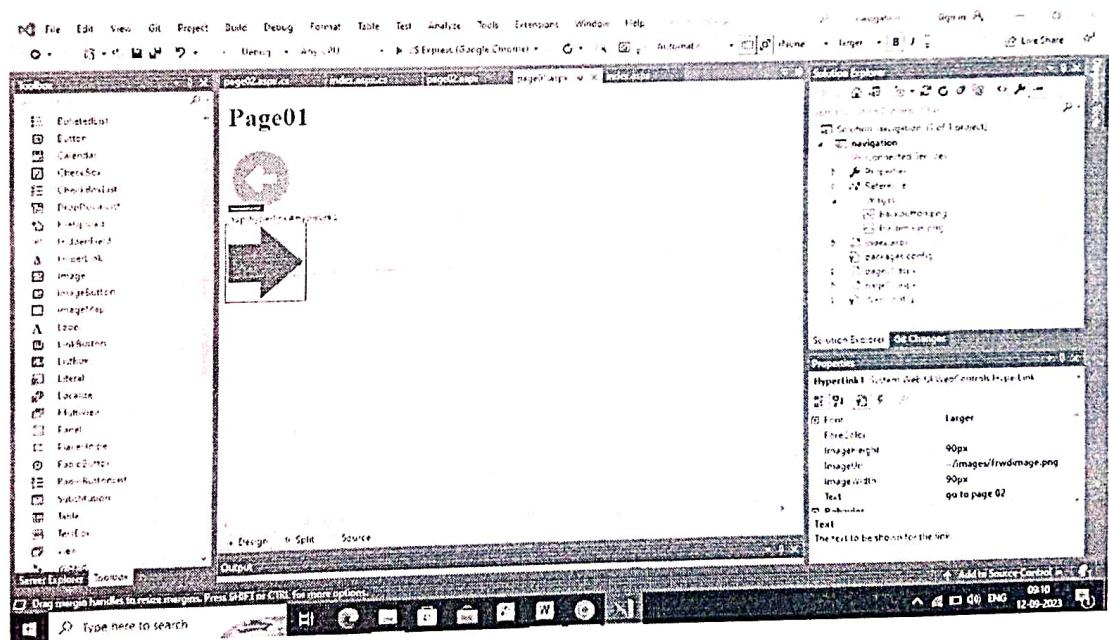
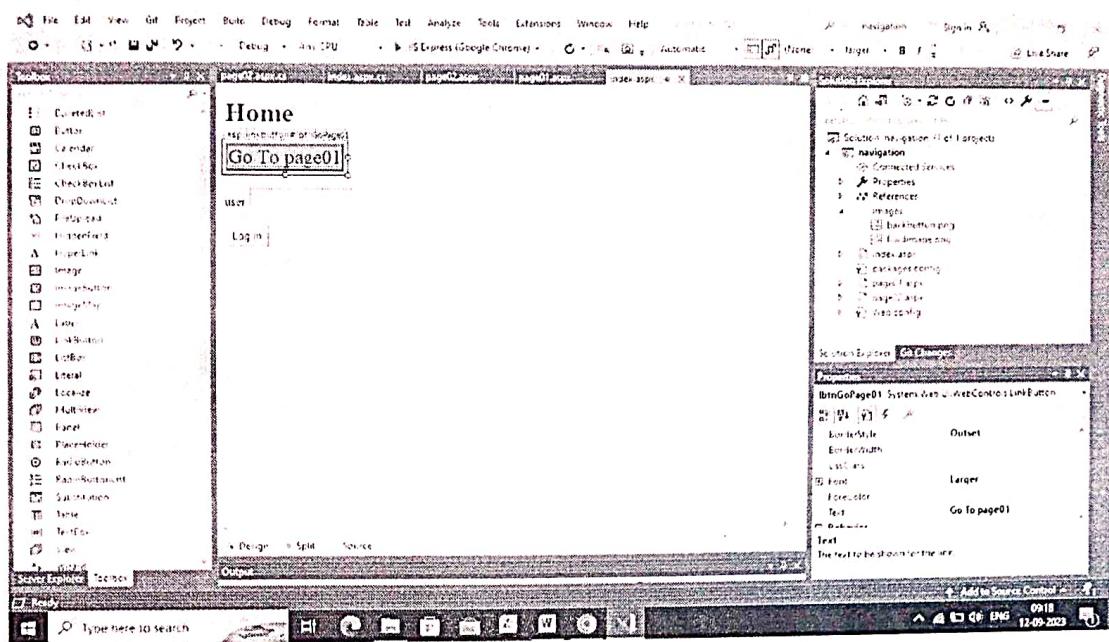
Step8:-double click on button->response.redirect("page01.aspx");

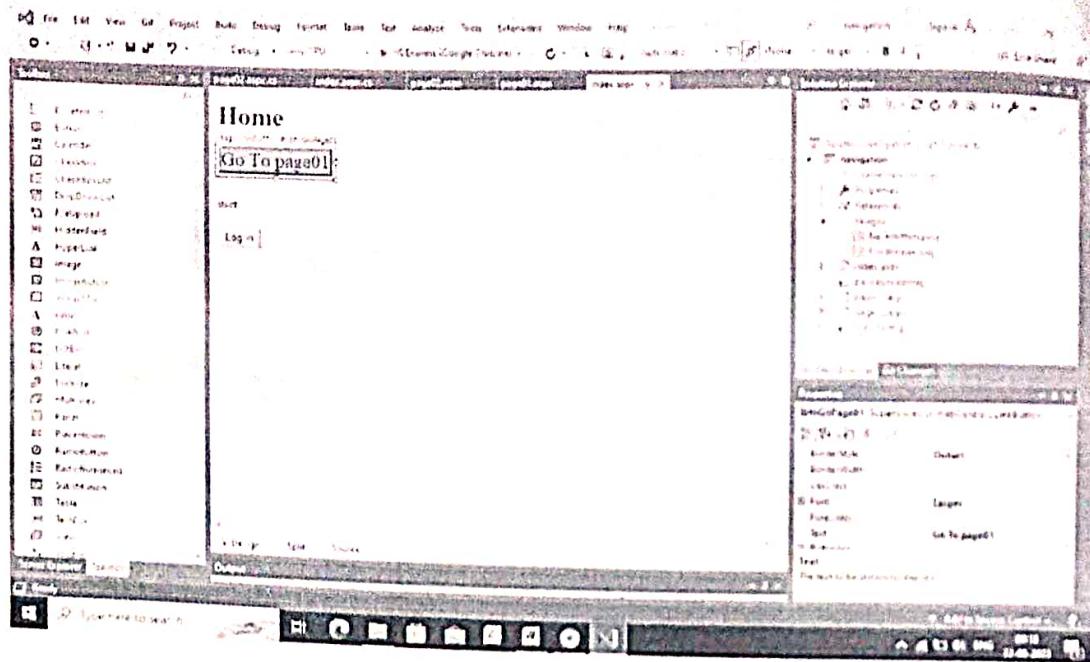


Step9:-ho to page01->drag image ->name->home;>size:80,80,

Select image->format->convert to hyperlink->browse->index.aspx.

Step10:for image2 on page01 take hyperlink for fwd button->text proper gotopage02->font bold->





```

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

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

        }

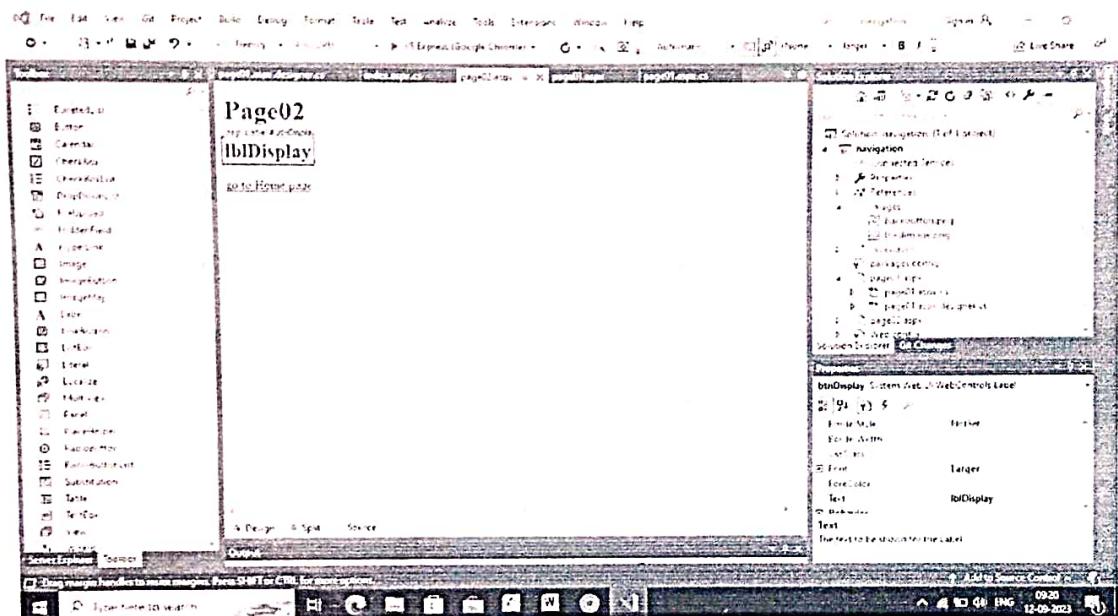
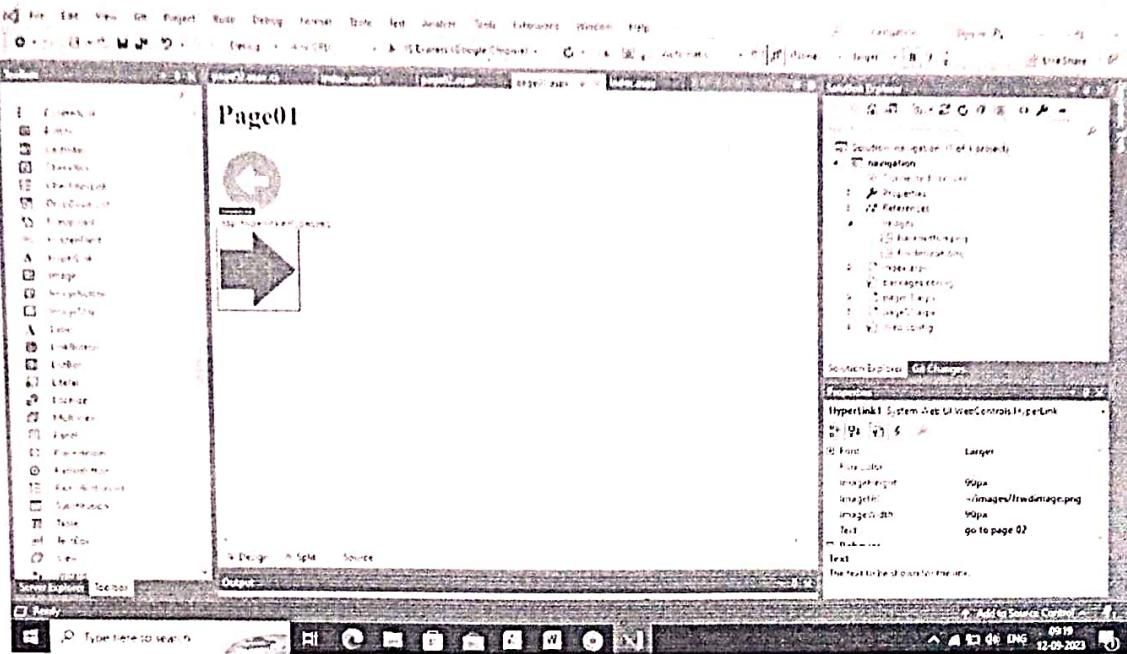
        protected void lbtnGoPage01_Click(object sender, EventArgs e)
        {
            Response.Redirect("page01.aspx");
        }

        protected void btnlogin_Click(object sender, EventArgs e)
        {
            //string str = "";
            //str = "?User=" + txtuser.Text;
            //Response.Redirect("page02.aspx" + str);
            Session["User"] = txtuser.Text;
            Response.Redirect("page02.aspx");
        }
    }
}

```

Page01:

page 101 • upside



Page02.aspx

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

namespace navigation
{
    public partial class page02 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
```

```
using System;
using System;
using System;
using System;
```

```
}  
if (!Page.IsPostBack)  
{  
    //btnDisplay.Text = Request.QueryString["user"];  
    btnDisplay.Text = Session["user"].ToString();  
}  
}  
}
```

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace firstdatabasedemo
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }
        SqlConnection conn = new SqlConnection(@"Data Source=DESKTOP-HKAM9SR\SQLEXPRESS;Initial Catalog=youtube;Integrated Security=True");

        private void textBox2_TextChanged(object sender, EventArgs e)
        {

        }

        private void button2_Click(object sender, EventArgs e)
        {
            txtUserName.Clear();
            txtpass.Clear();
            txtUserName.Focus();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            string username, user_password;
            username = txtUserName.Text;
            user_password = txtpass.Text;
            try
            {
                string queery = "select * from login_new where username='" + txtUserName.Text + "' AND password='" + txtpass.Text + "'";
                SqlDataAdapter sda = new SqlDataAdapter(queery, conn);
                DataTable dtable = new DataTable();
                sda.Fill(dtable);
                if(dtable.Rows.Count>0)
                {
                    username = txtUserName.Text;
                    user_password = txtpass.Text;
                    //page that needed to be load next
                    Menuforms form2 = new Menuforms();
                    form2.Show();
                    this.Hide();
                }
                else
                {
            
```

```
        MessageBox.Show("Invalid login details", "error",
MessageBoxButtons.OK, MessageBoxIcon.Error);
txtUserName.Clear();
txtpass.Clear();
//to focus username
txtUserName.Focus();
}

}

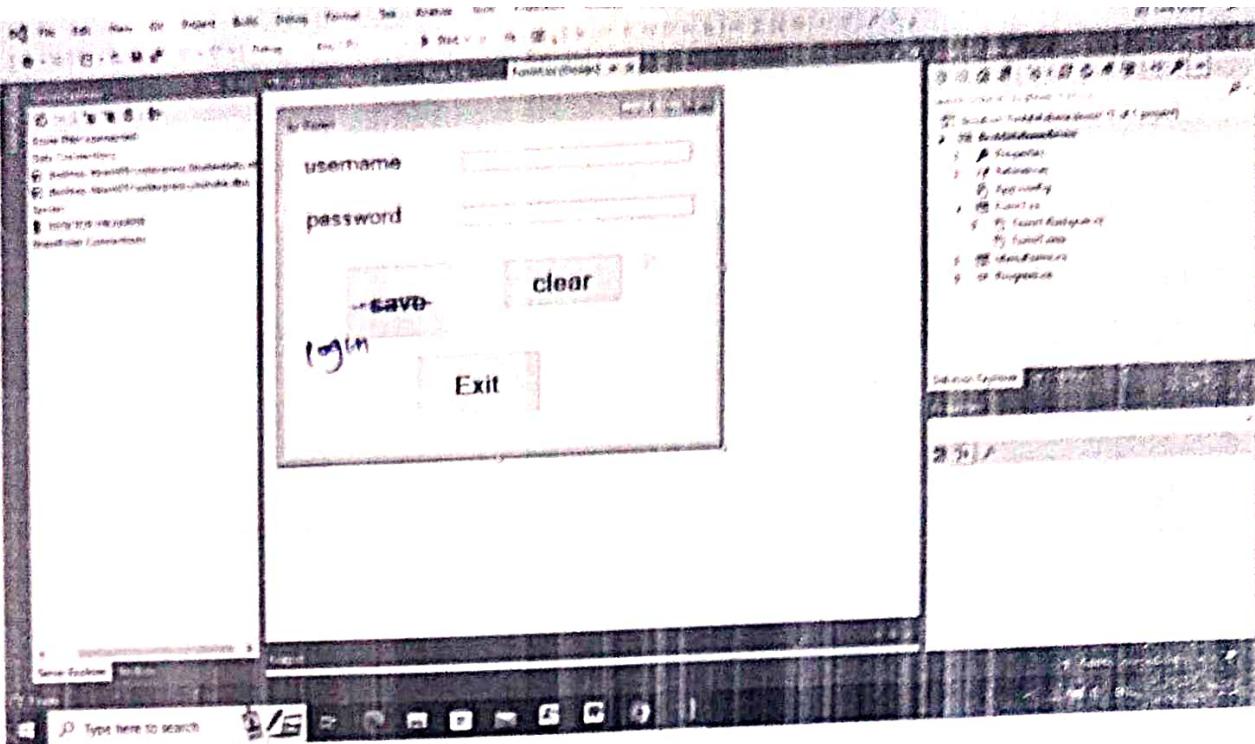
catch
{
    MessageBox.Show("error");
}
finally
{
}

}

private void Form1_Load(object sender, EventArgs e)
{

}

private void button3_Click(object sender, EventArgs e)
{
    DialogResult res;
    res = MessageBox.Show("do you want to exit", "exit", MessageBoxButtons.YesNo,
MessageBoxIcon.Question);
    if(res==DialogResult.Yes)
    {
        Application.Exit();
    }
    else
    {
        this.Show();
    }
}
}
```



```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace firstdatabasedemo
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }
        SqlConnection conn = new SqlConnection(@"Data Source=DESKTOP-HKAM95R\SQLEXPRESS;Initial Catalog=youtube;Integrated Security=True");

        private void textBox2_TextChanged(object sender, EventArgs e)
        {
        }
    }
}
```

```
private void button2_Click(object sender, EventArgs e)
{
    txtUserName.Clear();
    txtPass.Clear();
    txtUserName.Focus();
}

private void button1_Click(object sender, EventArgs e)
{
    string username, user_password;
    username = txtUserName.Text;
    user_password = txtPass.Text;
    try
    {
        string queerry = "select * from login_new where username='" + txtUserName.Text + "' AND password='" + txtPass.Text + "'";
        SqlDataAdapter sda = new SqlDataAdapter(queerry, conn);
        DataTable dtable = new DataTable();
        sda.Fill(dtable);
        if (dtable.Rows.Count > 0)
        {
            username = txtUserName.Text;
            user_password = txtPass.Text;
            //page that needed to be load next
            Menuforms form2 = new Menuforms();
            form2.Show();
            this.Hide();
        }
        else
        {
            MessageBox.Show("Invalid login details", "error", MessageBoxButtons.OK,
                           MessageBoxIcon.Error);
            txtUserName.Clear();
            txtPass.Clear();
            //to focus username
            txtUserName.Focus();
        }
    }
    catch
    {
        MessageBox.Show("Error");
    }
    finally
    {
    }
}

private void Form1_Load(object sender, EventArgs e)
{
}
```

政治上：民族区域自治制度，民族平等、团结和共同繁荣的原则，民族区域自治制度

3

经济上：民族平等、团结和共同繁荣的原则

政治上：民族区域自治制度，民族平等、团结和共同繁荣的原则，“三个代表”，科学发展观，和谐社会，全面建设小康社会，中国梦

经济上：民族平等、团结和共同繁荣的原则

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政治上：民族平等、团结和共同繁荣的原则

3

政治上：

3

政治上：民族平等、团结和共同繁荣的原则

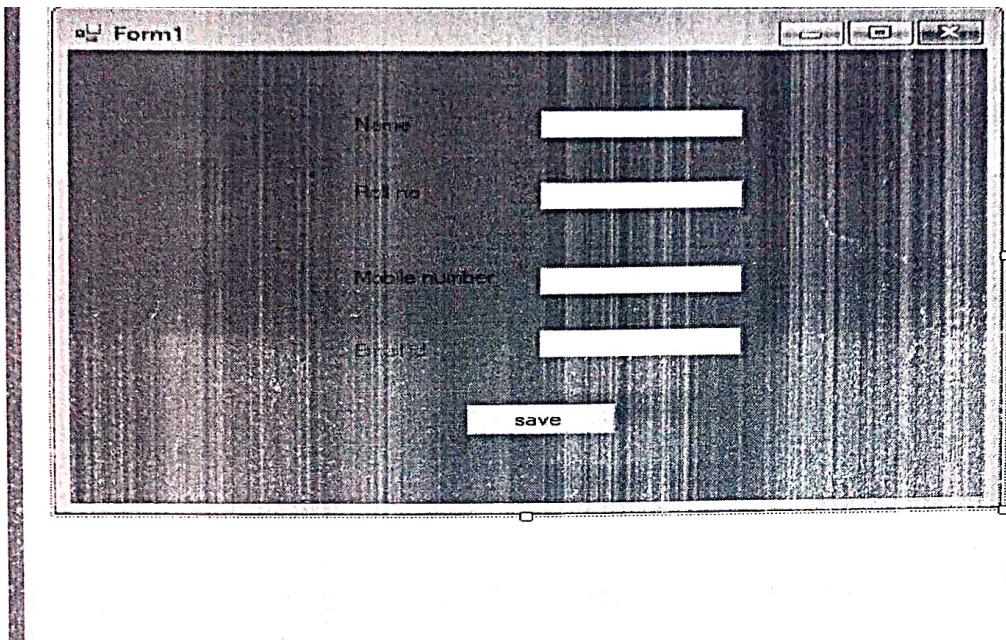
3

政治上：

3

政治上：

3



Column Name	Data Type	Allow Nulls
Name	varchar(50)	<input type="checkbox"/>
rollno	varchar(50)	<input type="checkbox"/>
mobilenumber	varchar(15)	<input type="checkbox"/>
emailid	varchar(50)	<input checked="" type="checkbox"/> <input type="checkbox"/>

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
```

```
namespace savingdemo
{
    public partial class Form1 : Form
    {
```

```
SqlConnection con = new SqlConnection("Data Source=DESKTOP-
HKAM95R\\SQLEXPRESS;InitialCatalog=school;Integrated Security=True");
public Form1()
{
    InitializeComponent();
}

private void button1_Click(object sender, EventArgs e)
{
    SqlCommand cmd = new SqlCommand("insert into
students(name,rollno,mobileno,emailid)values('" + txtname.Text + "','" + txtrollno.Text +',
'" + txtmobileno.Text + "','" + txtmailid.Text + "')", con);
con.Open();
cmd.ExecuteNonQuery();
con.Close();
txtname.Text = " ";
txtrollno.Text = " ";
txtmobileno.Text = " ";
txtmailid.Text = " ";
}

}
```

How to Use validation control in Asp.net

Step 1:open visual studio2019

Step2:file->new->website->asp.net web application->asp.net web application(.net framework)->next->empty website->add ->ok.

Step 3:in solution explorer->right click on new validation form ->add->new item->webform

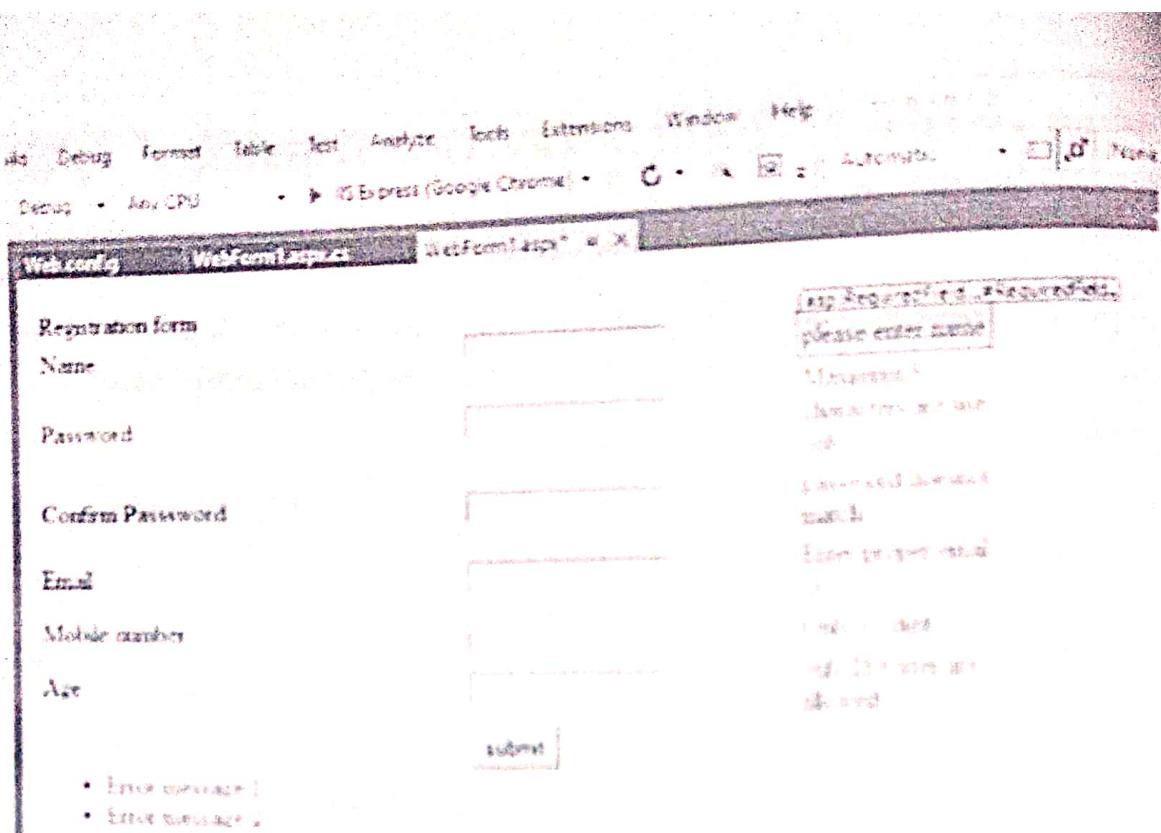
Step 4:now click on design->

Step5: first we have add a table

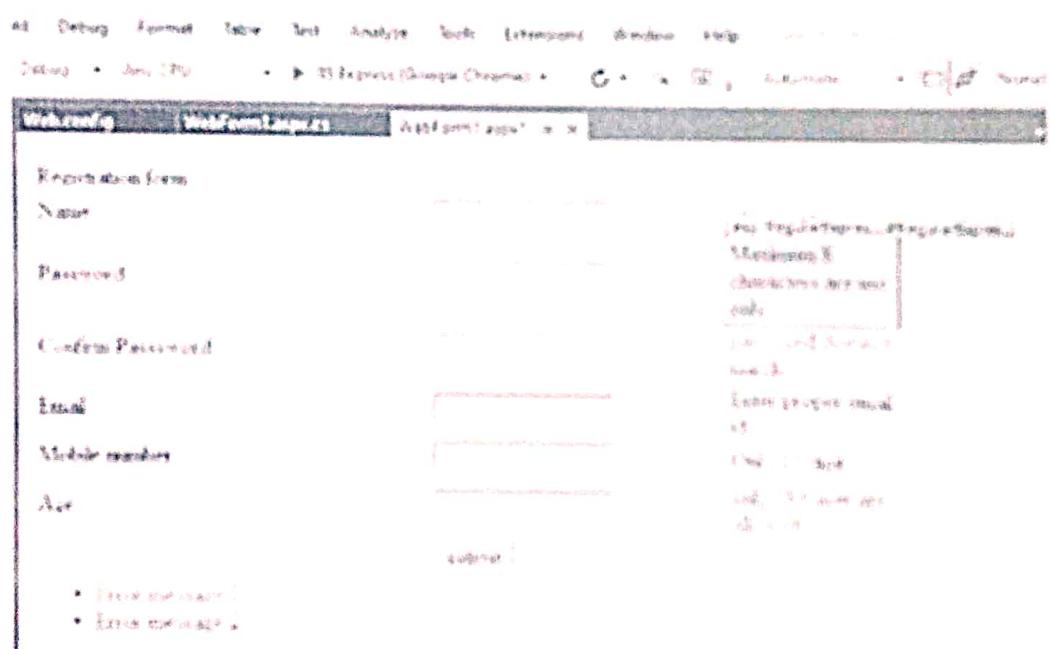
Goto toolbox->click on HTML tab->table->click on it

Step 6:->adjust ur table->add row->select row->right click ->insert row below->n design ur form accrding to image given below

Step7:Name:



Password:



Confirm password(Compare validator)

File Debug Format Table Test Analyze Tools Extensions Window Help

Debug Any CPU IIS Express (Google Chrome) Automatic None

Web.config WebForm1.aspx WebForm1.aspx # X

Registration form

Name	<input type="text"/>	please enter name Maximum 8 characters are use able
Password	<input type="password"/>	password does not match jssp CompareValidator1.CompareValue1
Confirm Password	<input type="password"/>	
Email	<input type="text"/>	Enter proper email id Only 10 digit
Mobile number	<input type="text"/>	only 10+ user are allowed
Age	<input type="text"/>	
<input type="button" value="submit"/>		
<ul style="list-style-type: none"> • Error message 1 • Error message 2 		

Email(regular expression validator)

File Debug Format Table Test Analyze Tools Extensions Window Help

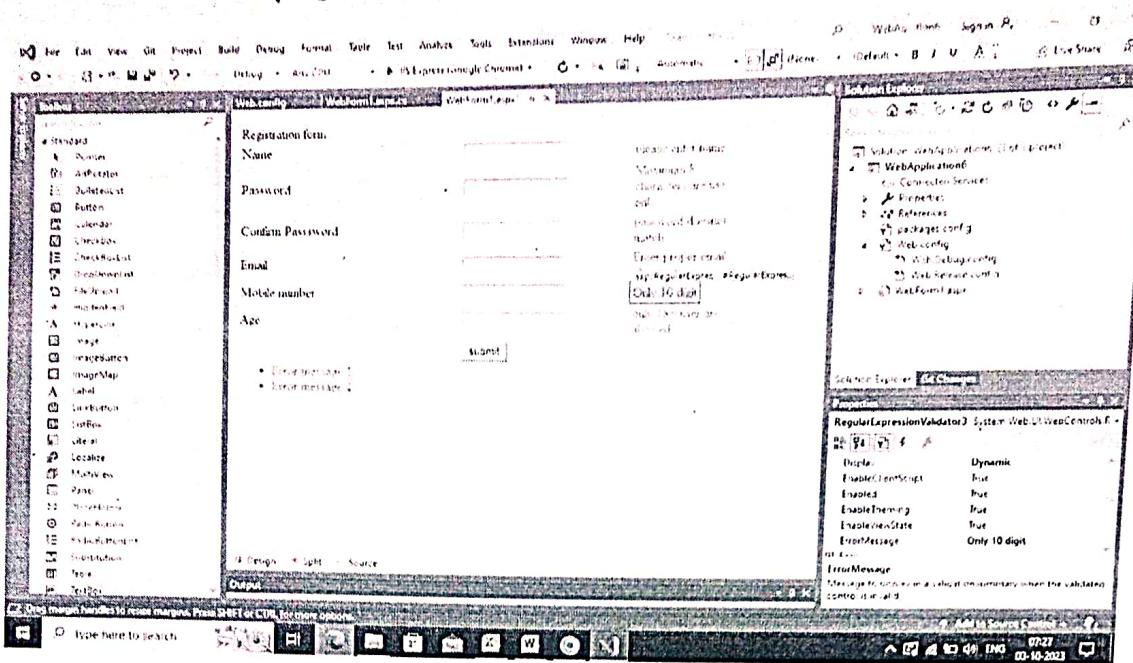
Debug Any CPU IIS Express (Google Chrome) Automatic None

Web.config WebForm1.aspx WebForm1.aspx # X

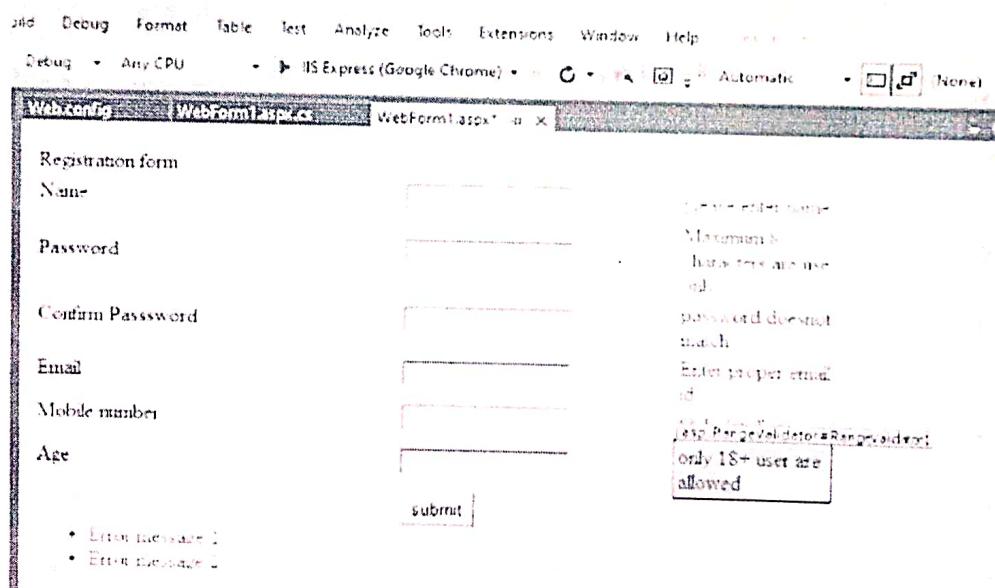
Registration form

Name	<input type="text"/>	please enter name Maximum 8 characters are use able
Password	<input type="password"/>	password does not match jssp RegularExpressionValidator1.RegularExpres
Confirm Passsword	<input type="password"/>	
Email	<input type="text"/>	Enter proper email id Only 10 digit
Mobile number	<input type="text"/>	only 10+ user are allowed
Age	<input type="text"/>	
<input type="button" value="submit"/>		
<ul style="list-style-type: none"> • Error message 1 • Error message 2 		

Mobile number(regular expression validator)



Age(Range validator):



2.password(Required Expression validator)

Required expression validator	Property	Options
	Display	Dynamic
	Forecolor	Red
	Erormessage	Maximum 8 characters are use only
	Validation expression	<code>^[a-zA-Z0-9'@#\s]{8}\\$</code>
	Setfocus on error	true
	Control to validate	Textbox2

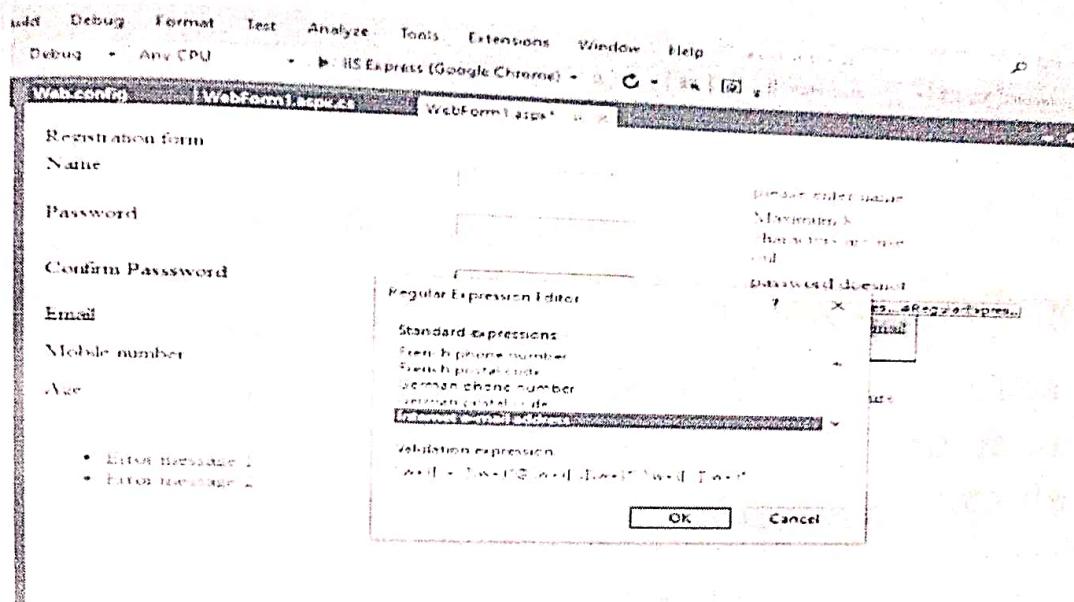
Confirm password(Compare validator):

Compare validator	Property	Options
	Display	Dynamic
	Forecolor	Red

	Control to compare	Textbox2
	Control to validate	Textbox3
	Setfocus on error	true
	Error message	Password doesnot match

Email(regular expression validator):

Regular expression validator	Property	Options
	Display	Dynamic
	Forecolor	Red
	Errormessage	Enter proper email id
	Validation expression	Click here... Select internet email address
	Setfocus on error	true
	Control to validate	Textbox4



Mobile number(Regular expression validator):

Regular expression validator	Property	Options
	Display	Dynamic
	Forecolor	Red
	Errormessage	Only 10 digit
	Validation expression	$^{\text{[0-9]}\{10\}}\$$
	Setfocus on error	true
	Control to validate	Textbox5

expression validator		options
	Display	Dynamic
	Forecolor	Red
	Errormessage	Only 18+ user are allowed
	Maximum value	60
	minimumvalue	18
	Setfocus on error	true
	Control to validate	Textbox6
	type	integer

Validation summary:

Validation summary	property	option
	Forecolor	Red
	Show messagebox	true

Now save the program and run it

```
appSettings>
    <add key="ValidationSettingUnobtrusiveValidationMode" value="None"></add>
</appSettings>
```