**Program 6 :**

**AIM** **:-** Create a C# program to test *Attributes* and *Reflection*.

**Program :-**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Reflection;

namespace ConsoleApplication\_6

{

[AttributeUsage(AttributeTargets.Class|AttributeTargets.Method,AllowMultiple=true)]

public class Author : Attribute

{

string name;

public double version;

public Author(string name)

{

this.name = name;

version = 1.1;

}

public string getname()

{

return name;

}

}

[Author("Ruchita"),Author("Avani", version = 2.1)]

class test

{

void method1()

{

}

}

class Program

{

static void Main(string[] args)

{

Type t = typeof(test);

Attribute[] attrs = Attribute.GetCustomAttributes(t);

foreach (Attribute attr in attrs)

{

Author a = (Author)attr;

Console.WriteLine("Author name : "+a.getname());

Console.WriteLine("Version : "+a.version);

}

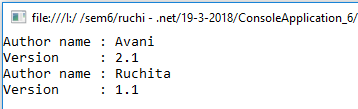
Console.ReadLine();

}

}

}

**Output:**



**Program 8 :**

**AIM** **:-** Create a custom control for calculating Simple Interest and Compound Interest.

**Program :-**

**UserControl1.cs**

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Drawing;

using System.Data;

using System.Linq;

using System.Text;

using System.Windows.Forms;

namespace WindowsFormsControlLibrary1

{

public partial class UserControl1 : UserControl

{

public UserControl1()

{

InitializeComponent();

}

private void button1\_Click(object sender, EventArgs e)

{

double si, p, r, t;

p = Convert.ToDouble(textBox1.Text);

r = Convert.ToDouble(textBox2.Text);

t = Convert.ToDouble(textBox3.Text);

si = (p \* r \* t) / 100;

label5.Text = si.ToString();

}

private void button2\_Click(object sender, EventArgs e)

{

double ci, p, r, t, n, a , b , c;

p = Convert.ToDouble(textBox1.Text);

r = Convert.ToDouble(textBox2.Text);

t = Convert.ToDouble(textBox3.Text);

n = Convert.ToDouble(textBox4.Text);

a = (n + r) / n; b = n \* t; c = Math.Pow(a, b); ci = p \* c;

label6.Text = ci.ToString();

}

}

}

**Form1.cs**

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Windows.Forms;

namespace WindowsFormsControlLibrary1

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void Form1\_Load(object sender, EventArgs e)

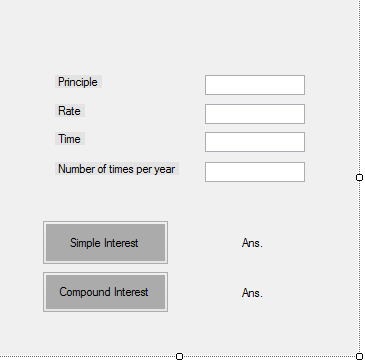
{

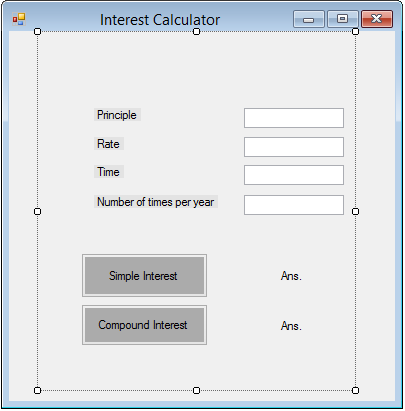
}

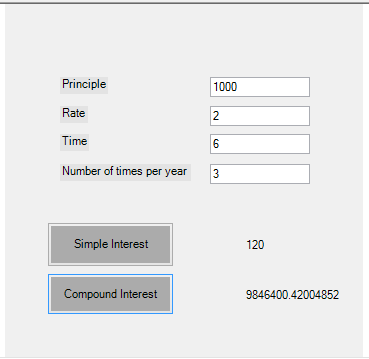
}

}

**Output:**







**Program 9 :**

**AIM** **:-** Implement Paint application to draw various shapes using GDI+. Use menu to provide

various options. Free Hand Drawing should also be implemented.

**Program :-**

using System;

usingSystem.Collections.GenericusingSystem.ComponentModel; using System.Data;

using System.Drawing; using System.Linq; using System.Text;

using System.Windows.Forms; usingSystem.Drawing.DrawingD;

namespace paint

{

public partial class Form1 : Form

{

int flag = 0;

int x1, y1, x2, y2;

public Form1()

{

InitializeComponent();

}

private void circleToolStripMenuItem\_Click(object sender, EventArgs e)

{

Graphics g = this.CreateGraphics(); Pen p = new Pen(Color.Aqua); g.DrawEllipse(p,70,80,100,100);

}

private void squareToolStripMenuItem\_Click(object sender, EventArgs e)

{

Graphics g;

g = this.CreateGraphics();

Pen p = new Pen(Color.Green); g.DrawRectangle(p, 50, 60, 100, 100);

}

private void freehandToolStripMenuItem\_Click(object sender, EventArgs e)

{

flag = 1;

}

private void Form1\_MouseMove(object sender, MouseEventArgs e)

{

if (flag == 1)

{

if (e.Button == MouseButtons.Left)

{

x2 = e.X;

y2 = e.Y; Graphics g;

g = this.CreateGraphics();

Pen p = new Pen(Color.Maroon); g.DrawLine(p, x1, y1, x2, y2); x1 = x2;

y1 = y2;

}

}

}

private void Form1\_MouseDown(object sender, MouseEventArgs e)

{

if (flag == 1)

{

x1 = e.X;

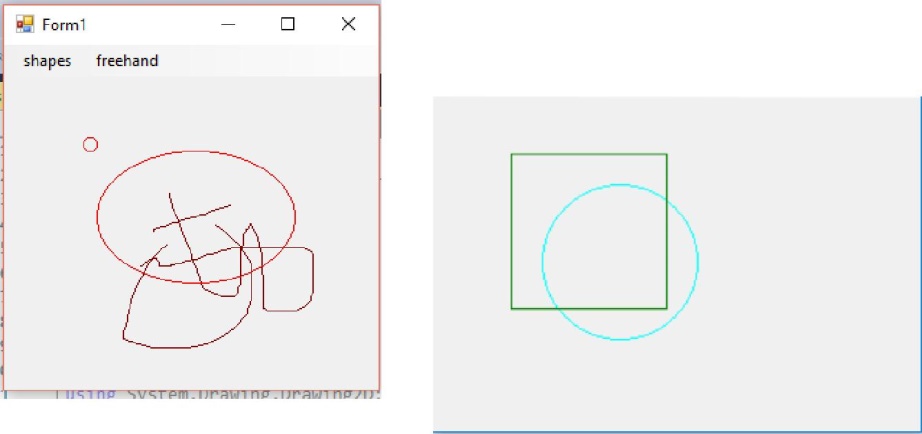
y1 = e.Y;

}

}

}

**Output:**



**PART -4 ASP.NET**

**Program 1 :**

**AIM** **:-** Write a program to check whether empty query string is entered in Asp .net.

**Program :-**

**Default.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits="\_Default" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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

<head runat="server">

<title></title>

</head>

<body>

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

<div style="height: 130px; width: 582px">

Name :&nbsp;

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

<asp:Button ID="Button1" runat="server" Height="26px" onclick="Button1\_Click"

Text="Submit" Width="63px" />

<br /> <br /><br />

<asp:Label ID="Label2" runat="server" Text="Color Chnage Label"></asp:Label>

<br />

<br />

</div>

</form>

</body>

</html>

**Default.aspx.cs**

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Drawing;

public partial class \_Default : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

Response.Redirect("Default2.aspx?id="+TextBox1.Text);

}

}

**Default2.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class Default2 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

if (string.IsNullOrEmpty(Request.QueryString[0].ToString()))

{

Response.Write("String is Empty");

}

else

{

String str = Request.QueryString[0];

Response.Write("Name is : " +str);

}

}

}

**Output:**

**C:\Users\Ruchita\Desktop\1.PNG C:\Users\Ruchita\Desktop\3.PNG**

C:\Users\Ruchita\Desktop\2.PNGC:\Users\Ruchita\Desktop\4.PNG

**Program 2 :**

**AIM** **:-** Write a program to change color of Label text control programmatically in Asp .Net.

**Program :-**

**Default.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits="\_Default" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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

<head runat="server">

<title></title>

</head>

<body>

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

<div style="height: 130px; width: 582px">

<asp:DropDownList ID="DropDownList1" runat="server" AutoPostBack="True"

onselectedindexchanged="DropDownList1\_SelectedIndexChanged">

<asp:ListItem>Red</asp:ListItem>

<asp:ListItem>Blue</asp:ListItem>

<asp:ListItem>Yellow</asp:ListItem>

<asp:ListItem>Green</asp:ListItem>

</asp:DropDownList>

<br />

</div>

</form>

</body>

</html>

**Default.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.Drawing;

public partial class \_Default : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

Response.Redirect("Default2.aspx?id="+TextBox1.Text);

}

protected void DropDownList1\_SelectedIndexChanged(object sender, EventArgs e)

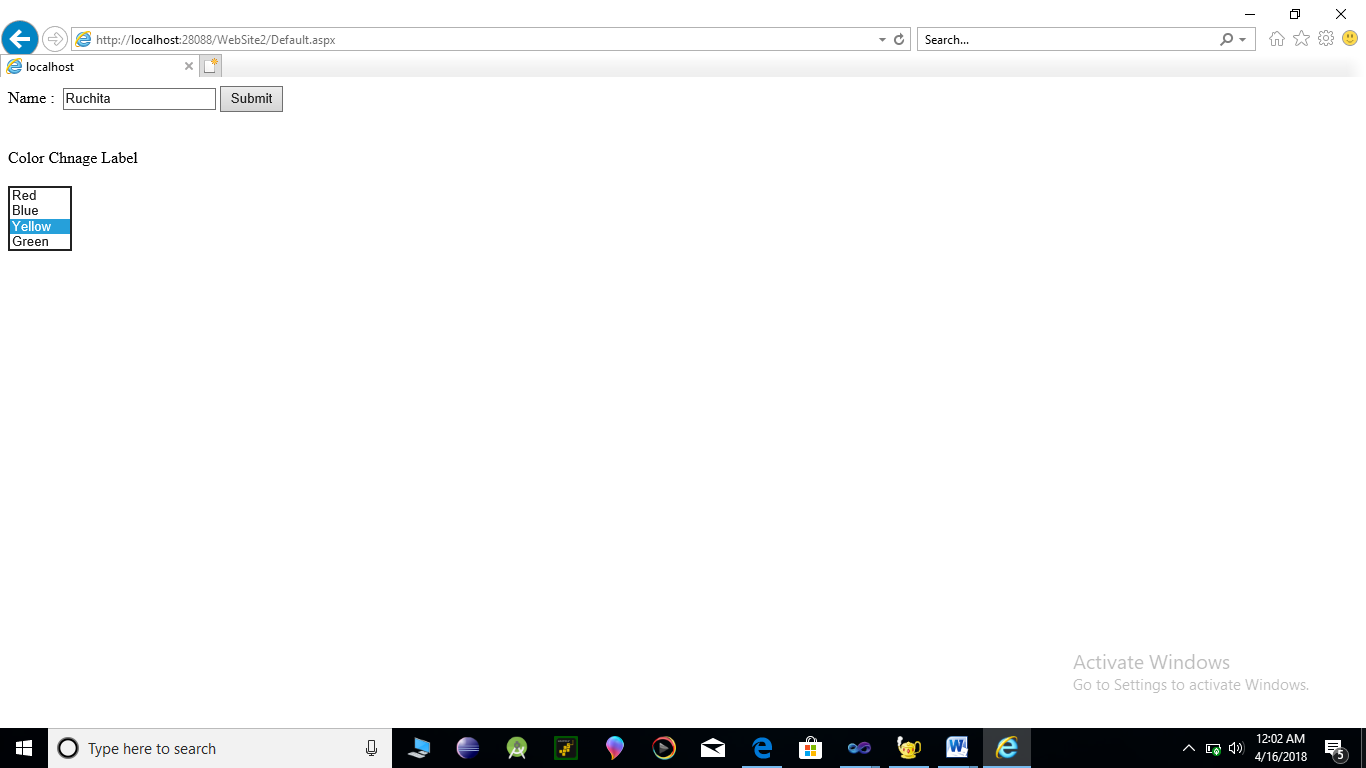
{

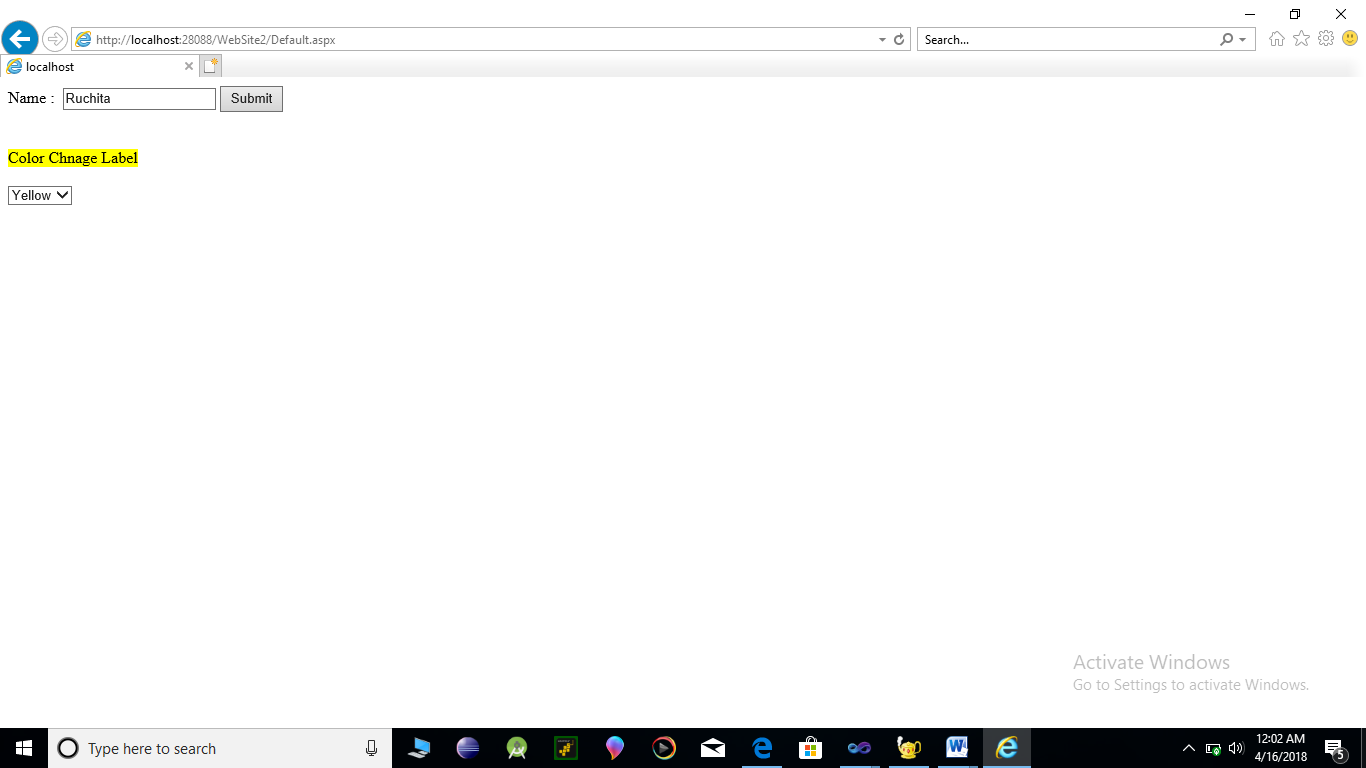
Label2.BackColor = Color.FromName(DropDownList1.SelectedValue.ToString());

}

}

**Output:**





**Program 3 :**

**AIM** **:-** Write a program to Enable-Disable Textbox and change width of TextBox

programmatically in Asp .Net.

**Program :-**

**enabledisabletxtbox.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="enabledisabletextbox.aspx.cs" Inherits="enabledisabletextbox" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<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"></asp:TextBox>

<asp:RadioButtonList ID="RadioButtonList1" runat="server">

<asp:ListItem>Enable</asp:ListItem>

<asp:ListItem>Disable</asp:ListItem>

</asp:RadioButtonList>

<br />

&nbsp;

<asp:Button ID="Button1" runat="server" Text="Button" />

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

</div>

</form>

</body>

</html>

**enabledisabletxtbox.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class enabledisabletextbox : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{}

protected void Button1\_Click(object sender, EventArgs e)

{

TextBox1.Width = Convert.ToInt32(TextBox1.Text);

}

protected void RadioButtonList1\_SelectedIndexChanged(object sender, EventArgs e)

{

if (RadioButtonList1.SelectedIndex == 0)

TextBox1.Enabled = true;

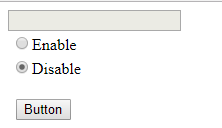
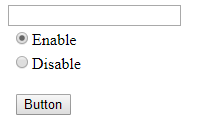
else

TextBox1.Enabled = false;

}

}

**Output:**



**Program 4 :**

**AIM** **:-** Design an application using Master Pages, Menu and Themes.

**Program :-**

**MasterPage.master**

<%@ Master Language="C#" AutoEventWireup="true" CodeFile="MasterPage.master.cs" Inherits="MasterPage" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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

<head runat="server">

<title></title>

<asp:ContentPlaceHolder id="head" runat="server">

</asp:ContentPlaceHolder>

<style type="text/css">

.style1

{

width: 192px;

height: 200px;

}

.style2

{

font-family: "Times New Roman", Times, serif;

font-size: xx-large;

}

.style3

{

font-size: xx-large;

}

body

{

background-image: url(bgi.jpg);

background-repeat: no-repeat;

background-attachment: fixed;

background-size: 100% 100%;

}

</style>

</head>

<body>

<form id="form1" runat="server" enableviewstate="true" method="get">

<div>

<p>

<center>

<img alt="" class="style1" src="SCETLOGO.jpg" border="3"

style="border-style: double" /><strong><br />

<br class="style3" />

</strong><span class="style2"><strong>STUDENT INTERACTION PORTAL</strong></span>

</center>

</p>

<asp:ContentPlaceHolder id="ContentPlaceHolder1" runat="server">

</asp:ContentPlaceHolder>

</div>

</form>

</body>

</html>

**1\_Login.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master" AutoEventWireup="true" CodeFile="1\_Login.aspx.cs" Inherits="Default2" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server">

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">

<div align="center" style="height: 292px; margin-bottom: 19px">

br />

<asp:Label ID="Label4" runat="server" Font-Bold="True" Font-Size="XX-Large"

Text="Log In"></asp:Label>

<asp:Label ID="Label1" runat="server" Text="User ID " Font-Size="Larger"></asp:Label>

<asp:TextBox ID="TextBox1" runat="server" Width="203px"></asp:TextBox>

<asp:Label ID="Label5" runat="server" ForeColor="#FF3300"></asp:Label>

<asp:Label ID="Label2" runat="server" Text="Password " Font-Size="Larger"></asp:Label>

<asp:TextBox ID="TextBox2" runat="server" Width="204px" TextMode="Password"></asp:TextBox>

<asp:Button ID="Button1" runat="server" Text="Log In" onclick="Button1\_Click" />

<asp:Label ID="Label3" runat="server" Font-Bold="True" ForeColor="#FF3300"></asp:Label>

Not Registered yet...???

<asp:HyperLink ID="HyperLink1" runat="server" NavigateUrl="~/2\_Register.aspx"

ForeColor="#003399" Target="\_top">Register</asp:HyperLink>

</div>

</asp:Content>

**2\_Register.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master" AutoEventWireup="true" CodeFile="2\_Register.aspx.cs" Inherits="Default5" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server">

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">

<div align="center" style="height: 399px; margin-bottom: 19px">

<asp:Label ID="Label4" runat="server" Font-Bold="True" Font-Size="X-Large"

Text="Register Yourself"></asp:Label>

<asp:Label ID="Label1" runat="server" Text="User ID "></asp:Label>

<asp:TextBox ID="TextBox1" runat="server" Width="203px"

ontextchanged="TextBox1\_TextChanged" style="margin-left: 0px"></asp:TextBox>

<asp:Label ID="Label7" runat="server" ForeColor="#009933"

Text="User Id must be Enrollment No"></asp:Label>

<br />

<asp:Label ID="Label8" runat="server" Text="Name "></asp:Label>

:TextBox ID="TextBox4" runat="server" style="margin-left: 0px"

Width="204px"></asp:TextBox>

<asp:Label ID="Label10" runat="server" Text="E-mail ID"></asp:Label><asp:TextBox ID="TextBox6" runat="server" style="margin-left: 0px"

Width="204px"></asp:TextBox>

<asp:Label ID="Label9" runat="server" Text="Contact No."></asp:Label>

<asp:TextBox ID="TextBox5" runat="server" Width="207px"></asp:TextBox>

<asp:Label ID="Label2" runat="server" Text="Password "></asp:Label>

<asp:TextBox ID="TextBox2" runat="server" Width="207px" TextMode="Password"></asp:TextBox>

<asp:Label ID="Label5" runat="server" Text="Confirm Password "></asp:Label>

<asp:TextBox ID="TextBox3" runat="server" Width="207px" Text

Mode="Password"></asp:TextBox>

<asp:Button

ID="Button1" runat="server" Text="Submit" onclick="Button1\_Click"

Height="26px" />

<asp:Button ID="Button2" runat="server" onclick="Button2\_Click" Text="Reset" />

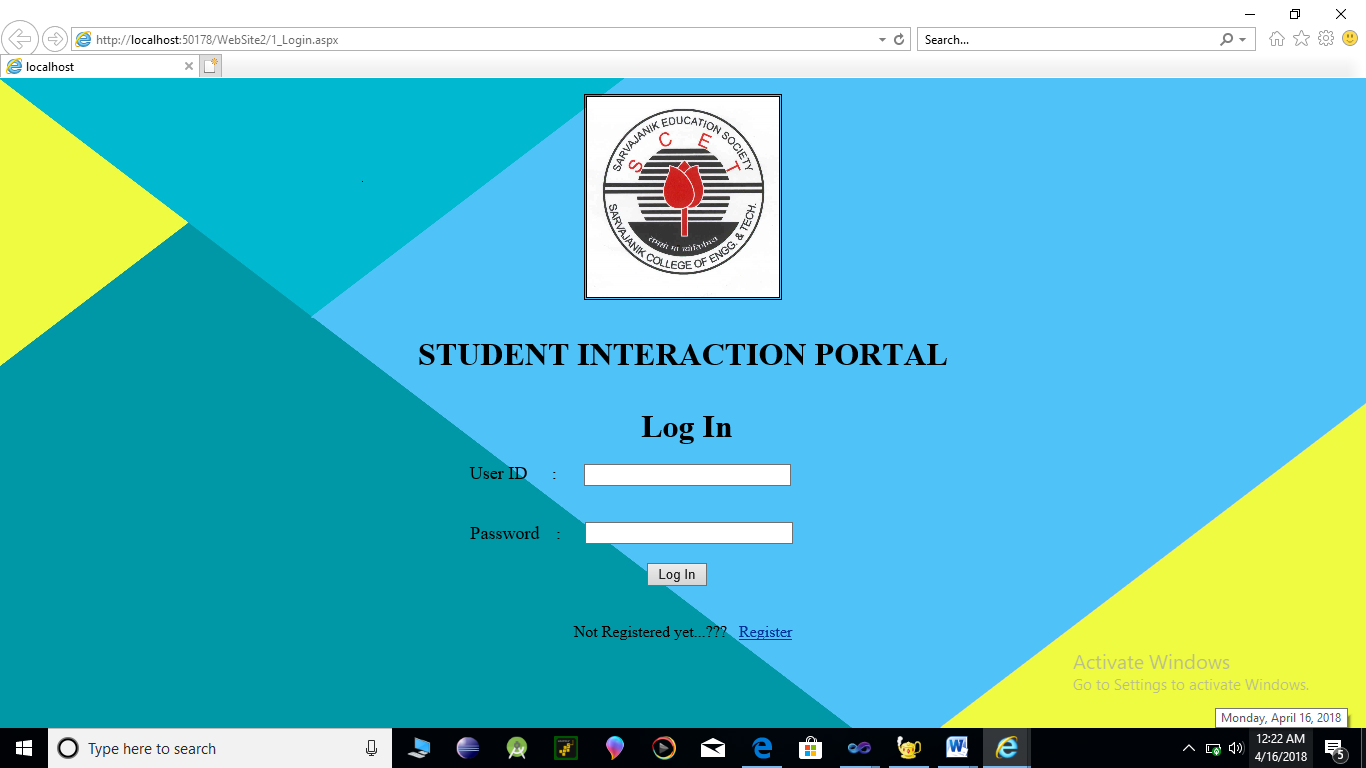
<br />

<asp:Label ID="Label6" runat="server" ForeColor="#FF3300"></asp:Label>

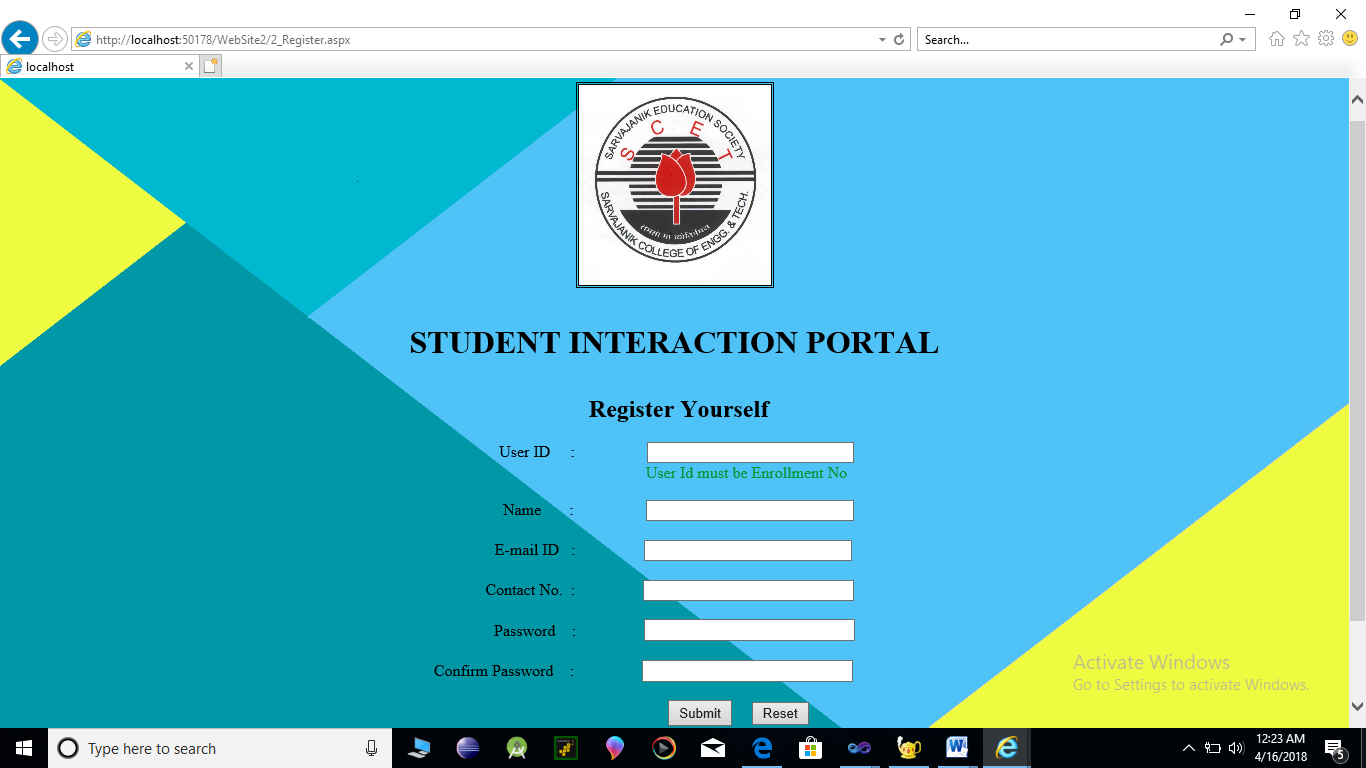
</div>

</asp:Content>

**Output:**



**After clicking on register :-**



**Program 5 :**

**AIM** **:-** Implement a Login Module in ASP.NET with C# with sql server database connectivityIt Contains 1) Registration 2) Login 3) Forgot Password.

In this use concepts of State management like cookies, session, query string and perform necessary validations.

**Program :-**

**log.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master" AutoEventWireup="true" Code-File="log.aspx.cs" Inherits="\_Default" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server"> </asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server"><br> <br />

<script type="text/javascript">

function validate(sender,args) {

var pw1 = document.getElementById('<%=TextBox2.ClientID%>').value;

if (pw1.length < 8 ) { args.IsValid = false; return;

}

args.IsValid = true;

}

</script>

<asp:Table ID="Table1" runat="server" HorizontalAlign="center"> <asp:TableRow>

<asp:TableCell><asp:Label ID="Label1" runat="server" Text="Username"></asp:Label></asp:TableCell> <asp:TableCell><asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><asp:RequiredFieldValidator

ID="RequiredFieldValidator1" runat="server" ErrorMessage="RequiredField \*" ControlToVali-date="TextBox1"></asp:RequiredFieldValidator></asp:TableCell>

</asp:TableRow>

<asp:TableRow>

<asp:TableCell><asp:Label ID="Label2" runat="server" Text="Password" ></asp:Label></asp:TableCell> <asp:TableCell><asp:TextBox ID="TextBox2" runat="server" Text-

Mode="Password"></asp:TextBox><asp:CustomValidator ID="CustomValidator1" runat="server" Er-rorMessage="Password must have atleast 8 characters" ControlToValidate="TextBox2" ClientValidationFunc-tion="validate"></asp:CustomValidator><asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server" ErrorMessage="\*" ControlToValidate="TextBox2"></asp:RequiredFieldValidator></asp:TableCell>

</asp:TableRow>

<asp:TableRow>

<asp:TableCell columnspan="2"><asp:Button ID="Button1" runat="server" Text="Login" On-Click="Button1\_Click"/><br />

</asp:TableCell> </asp:TableRow>

<asp:TableRow> <asp:TableCell >

<asp:HyperLink ID="HyperLink1" runat="server" NavigateUrl="forg.aspx" >Lost Password? &nbsp;&nbsp;</asp:HyperLink></asp:TableCell>

<asp:TableCell HorizontalAlign="left"><asp:HyperLink ID="HyperLink2" runat="server" Naviga-teUrl="reg.aspx" > &nbsp;&nbsp;&nbsp;Register here</asp:HyperLink></asp:TableCell>

</asp:TableRow> </asp:Table>

<br />

</asp:Content>

**log.aspx.cs**

using System;

usingSystem.Collections.Generic using System.Web;

using System.Web.UI;

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

public partial class \_Default : System.Web.UI.Page

{

SqlConnection con; SqlCommand cmd; SqlDataReader dr;

protected void Page\_Load(object sender, EventArgs e)

{

con = new SqlConnection(); con.ConnectionString= @"Data

Source=(LocalDB)\v11.0;AttachDbFilename=C:\Users\Admin\Documents\login.mdf;Integrated Securi-ty=True;Connect Timeout=30";

con.Open();

}

protected void Button2\_Click(object sender, EventArgs e)

{

Response.Redirect("reg.aspx");

}

protected void Button1\_Click(object sender, EventArgs e)

{

cmd = new SqlCommand(); cmd.Connection = con;

cmd.CommandText = "Select \* from login where username='" + TextBox1.Text + "'"; cmd.CommandType = System.Data.CommandType.Text;

dr = cmd.ExecuteReader(); if (dr.Read())

{

string user = TextBox1.Text; string pass = TextBox2.Text;

string name = Convert.ToString(dr.GetValue(0)); string p = Convert.ToString(dr.GetValue(1));

if (user.Equals(name) && pass.Equals(p))

{

Session["user"] = user; Response.Redirect("logout.aspx");

}

}

else

{

Response.Write("<script LANGUAGE='JavaScript' >alert('Wrong Username/password')</script>");

}

dr.Close();

}

}

**reg.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master" AutoEventWireup="true" Code-File="reg.aspx.cs" Inherits="reg" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server"> </asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">

<script type="text/javascript">

function validate(sender,args) {

var pw1 = document.getElementById('<%=TextBox3.ClientID%>').value;

if (pw1.length < 8 ) { args.IsValid = false; return;

}

args.IsValid = true;

}

</script>

<asp:Table ID="Table1" runat="server" HorizontalAlign="center"> <asp:TableRow>

<asp:TableCell><asp:Label ID="Label1" runat="server" Text="Name" Font-Size="large"></asp:Label></asp:TableCell>

<asp:TableCell><asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server" ErrorMessage="RequiredField \*" ControlToVali-date="TextBox1"></asp:RequiredFieldValidator></asp:TableCell>

</asp:TableRow> <asp:TableRow>

<asp:TableCell><asp:Label ID="Label2" runat="server" Text="Email" Font-Size="large"></asp:Label></asp:TableCell>

<asp:TableCell><asp:TextBox ID="TextBox2" runat="server"></asp:TextBox><asp:RegularExpressionValidator ID="RegularExpressionValidator2" runat="server" ErrorMessage="Invalid email id" ControlToValidate="TextBox2" ValidationExpression="^([\w\.\-]+)@([\w\-]+)((\.(\w){2,3})+)$"></asp:RegularExpressionValidator><asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server" ErrorMessage="\*" ControlToVali-date="TextBox2"></asp:RequiredFieldValidator></asp:TableCell>

</asp:TableRow>

<asp:TableRow>

<asp:TableCell><asp:Label ID="Label3" runat="server" Text="Password" Font-Size="large"></asp:Label></asp:TableCell>

<asp:TableCell><asp:TextBox ID="TextBox3" runat="server" Text-Mode="Password"></asp:TextBox><asp:CustomValidator ID="CustomValidator1" runat="server" Er-rorMessage="Password must have atleast 8 characters" ControlToValidate="TextBox3" ClientValidationFunc-tion="validate"></asp:CustomValidator><asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server" ErrorMessage="\*" ControlToValidate="TextBox3"></asp:RequiredFieldValidator></asp:TableCell>

</asp:TableRow> <asp:TableRow>

<asp:TableCell><asp:Label ID="Label4" runat="server" Text="Confirm Password" Font-Size="large"></asp:Label></asp:TableCell>

<asp:TableCell><asp:TextBox ID="TextBox4" runat="server" Text-

Mode="Password"></asp:TextBox><asp:CompareValidator ID="CompareValidator1" runat="server" Er-rorMessage="Passwords must be same" ControlToCompare="TextBox3" ControlToVali-date="TextBox4"></asp:CompareValidator><asp:RequiredFieldValidator ID="RequiredFieldValidator4" runat="server" ErrorMessage="\*" ControlToValidate="TextBox4"></asp:RequiredFieldValidator></asp:TableCell>

</asp:TableRow>

<asp:TableRow>

<asp:TableCell><asp:Label ID="Label5" runat="server" Text="Contact no." Font-Size="large"></asp:Label></asp:TableCell>

<asp:TableCell><asp:TextBox ID="TextBox5" runat="server" ></asp:TextBox><asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server" Er-rorMessage="There must be exactly 10 digits" ValidationExpression="[0-9]{10}"

ControlToValidate="TextBox5"> </asp:RegularExpressionValidator> <asp:RequiredFieldValidator ID="RequiredFieldValidator5" runat="server" ErrorMessage="\*" ControlToValidate="TextBox5"> </asp:RequiredFieldValidator></asp:TableCell> </asp:TableRow>

<asp:TableRow>

<asp:TableCell><asp:Button ID="Button2" runat="server" Text="Login now" OnClick="Button2\_Click" /> </asp:TableCell>

<asp:TableCell HorizontalAlign="Justify"><asp:Button ID="Button1" runat="server" Text="Register now" OnClick="Button1\_Click" />

</asp:TableCell>

</asp:TableRow> <asp:TableRow>

<asp:TableCell ColumnSpan="2"> <asp:ValidationSummary ID="ValidationSummary2" runat="server"></asp:ValidationSummary>

</asp:TableCell> </asp:TableRow>

</asp:Table> </asp:Content>

**Reg.aspx.cs**

using System;

usingSystem.Collections.Genericusing System.Web;

using System.Web.UI;

usingSystem.Web.UI.WebControls

using System.Data.SqlClient;

public partial class reg : System.Web.UI.Page

{

SqlConnection con; SqlCommand cmd,cmd1;

protected void Page\_Load(object sender, EventArgs e)

{

con = new SqlConnection(); con.ConnectionString = @"Data

Source=(LocalDB)\v11.0;AttachDbFilename=C:\Users\Admin\Documents\login.mdf;Integrated Securi-ty=True;Connect Timeout=30";

con.Open();

}

protected void Button2\_Click(object sender, EventArgs e)

{

Response.Redirect("log.aspx");

}

protected void Button1\_Click(object sender, EventArgs e)

{

cmd = new SqlCommand(); cmd.Connection = con;

cmd.CommandText = "Insert into reg(name,email,pass,cpass,numb)values ('" + TextBox1.Text + "','" + Text-Box2.Text + "','" + TextBox3.Text + "','" + TextBox4.Text + "','" + TextBox5.Text + "')";

cmd.CommandType = System.Data.CommandType.Text; int count = cmd.ExecuteNonQuery();

if (count > 0)

{

Response.Write("<script LANGUAGE='JavaScript'>alert('Registration Successful')</script>");

}

cmd1 = new SqlCommand(); cmd1.Connection = con;

cmd1.CommandType = System.Data.CommandType.Text;

cmd1.CommandText = "Insert into login(username,password) values ('" + TextBox1.Text + "','"+TextBox3.Text+"')";

int countn = cmd1.ExecuteNonQuery();

}

}

**forg.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage.master" AutoEventWireup="true" Code-File="forg.aspx.cs" Inherits="forg" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server"> </asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server"> <script type="text/javascript">

function validate(sender, args) {

var pw1 = document.getElementById('<%=TextBox2.ClientID%>').value;

if (pw1.length < 8) { args.IsValid = false; return;

}

args.IsValid = true;

}

</script>

<asp:Table runat="server" HorizontalAlign="Center"> <asp:TableRow>

<asp:TableCell><asp:Label ID="Label1" runat="server" Text="Username" Font-Size="large"></asp:Label></asp:TableCell>

<asp:TableCell><asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server" ErrorMessage="RequiredField \*" ControlToVali-date="TextBox1"></asp:RequiredFieldValidator></asp:TableCell>

</asp:TableRow> <asp:TableRow>

<asp:TableCell><asp:Label ID="Label2" runat="server" Text="New Password" Font-Size="large"></asp:Label></asp:TableCell>

<asp:TableCell><asp:TextBox ID="TextBox2" runat="server" Text-Mode="Password"></asp:TextBox><asp:CustomValidator ID="CustomValidator1" runat="server" Er-rorMessage="Password must have atleast 8 characters" ControlToValidate="TextBox2" ClientValidationFunc-tion="validate" Display="Dynamic" EnableClient-Script="True"></asp:CustomValidator><asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server" ErrorMessage="RequiredField \*" ControlToValidate="TextBox2"></asp:RequiredFieldValidator></asp:TableCell>

</asp:TableRow> <asp:TableRow>

<asp:TableCell><asp:Label ID="Label3" runat="server" Text="Confirm Password" Font-Size="large" ></asp:Label></asp:TableCell>

<asp:TableCell><asp:TextBox ID="TextBox3" runat="server" TextMode="Password" ></asp:TextBox><asp:CompareValidator ID="CompareValidator1" runat="server"

ErrorMessage="Passwords must be same" ControlToCompare="TextBox2" ControlToVali-date="TextBox3"></asp:CompareValidator></asp:TableCell>

</asp:TableRow>

<asp:TableRow>

<asp:TableCell ColumnSpan="2" HorizontalAlign="Center">

<asp:Button ID="Button1" runat="server" Text="Submit Changes" onclick="Button1\_Click" ></asp:Button> </asp:TableCell>

</asp:TableRow>

</asp:Table> </asp:Content>

**forg.aspx.cs**

using System;

usingSystem.Collections.Genericusing System.Web;

using System.Web.UI;

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

public partial class forg : System.Web.UI.Page

{

SqlConnection con; SqlCommand cmd; SqlDataReader dr;

protected void Page\_Load(object sender, EventArgs e)

{

con = new SqlConnection(); con.ConnectionString = @"Data

Source=(LocalDB)\v11.0;AttachDbFilename=C:\Users\Admin\Documents\login.mdf;Integrated Securi-ty=True;Connect Timeout=30";

con.Open();

}

protected void Button1\_Click(object sender, EventArgs e)

{

cmd = new SqlCommand(); cmd.Connection = con;

cmd.CommandText = "Select name from reg where name='" + TextBox1.Text + "'"; cmd.CommandType = System.Data.CommandType.Text;

dr = cmd.ExecuteReader();

if (dr.Read())

{

string user = TextBox1.Text;

string name = Convert.ToString(dr.GetValue(0)); dr.Close();

if (user.Equals(name))

{

fun();

}

}

else

{

Response.Write("<script LANGUAGE='JavaScript' >alert('User does not exist, Please register first')</script>");

Response.Redirect("reg.aspx");

}

}

void fun()

{

cmd = new SqlCommand(); cmd.Connection = con;

cmd.CommandType = System.Data.CommandType.Text;

cmd.CommandText = "Update reg set pass='" + TextBox2.Text + "',cpass='" + TextBox3.Text + "' where name='" + TextBox1.Text + "' ";

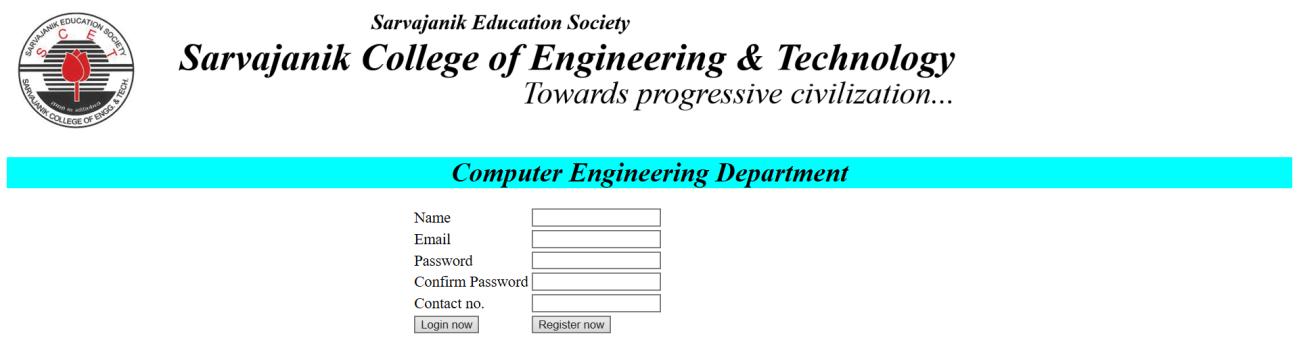
int count = cmd.ExecuteNonQuery(); if (count > 0)

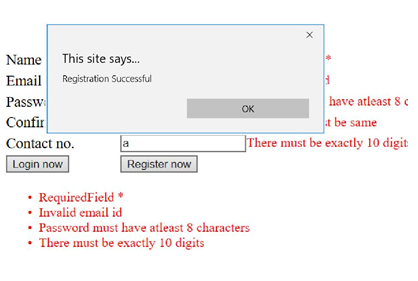
Response.Write("<script LANGUAGE='JavaScript' >alert('Password saved successfully')</script>");

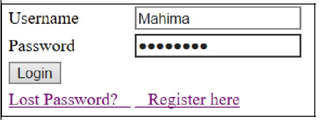
}

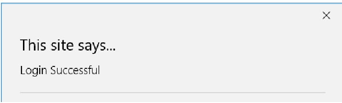
}

**Output:**









**Program 6 :**

**AIM** **:-** Write ASP.Net program to Store Objects in Session State and Storing Session State

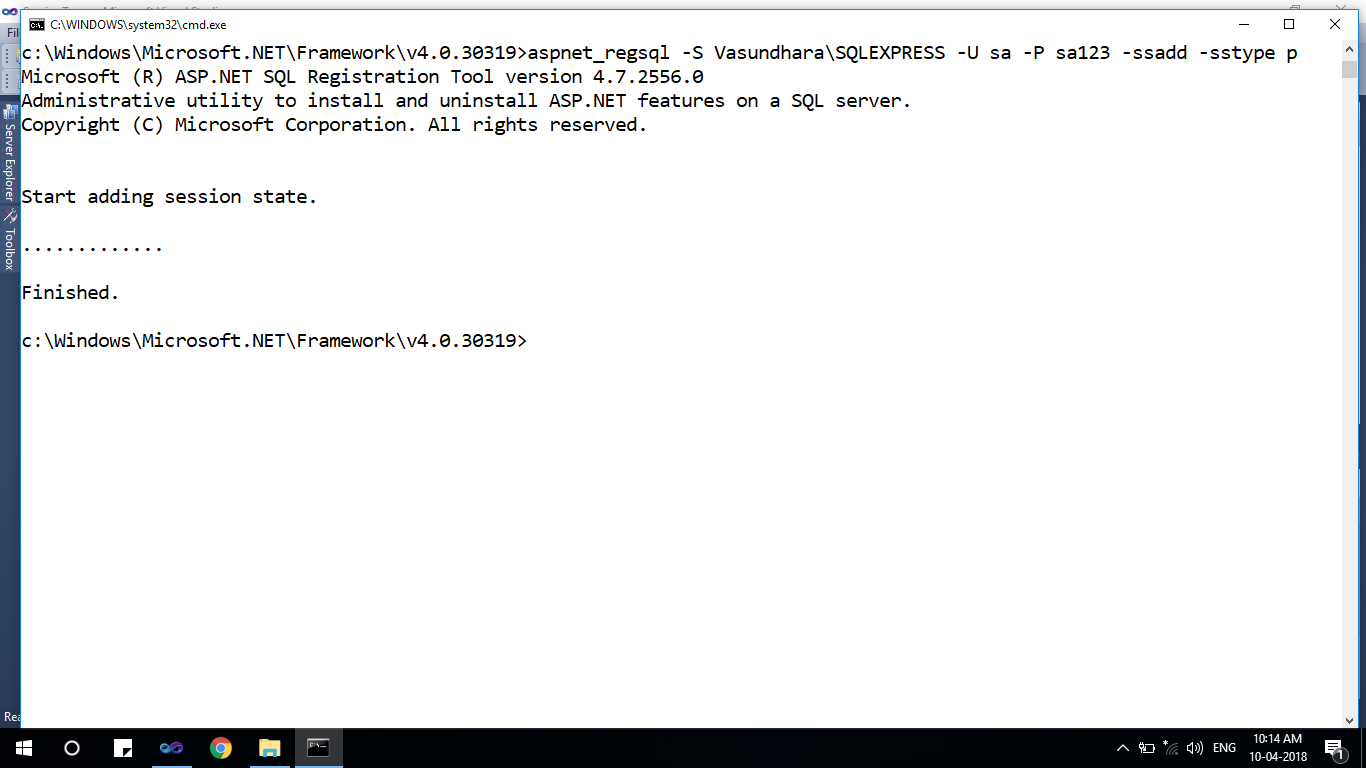
in SQL Server.

**Program :-**

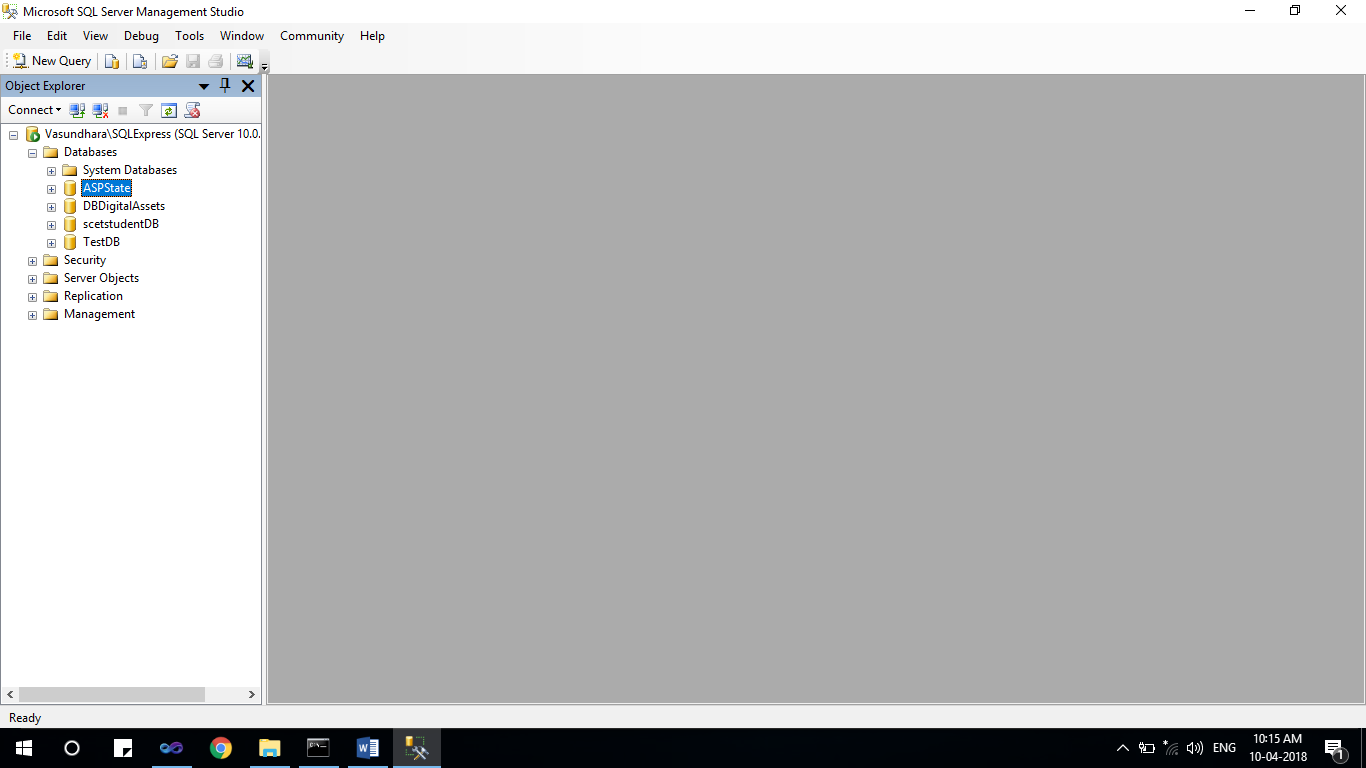
**SESSION**

Steps to store Session object in SQL Server:

1.



2) Database ASPState is created.



3) Store a DataSet object in Session and retrieve it on next page and display in GridView.

**Default.aspx:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Data;

using System.Data.SqlClient;

public partial class \_Default : System.Web.UI.Page

{

SqlConnection con;

SqlDataAdapter adp;

protected void Page\_Load(object sender, EventArgs e)

{

con=new SqlConnection(@"Data Source=VASUNDHARA\SQLEXPRESS;Initial Catalog=TestDB;User ID=sa;Password=sa123");

con.Open();

adp=new SqlDataAdapter("select \* from student\_master where gender='F'",con);

DataSet ds=new DataSet();

adp.Fill(ds);

Session["mydataset"]=ds; //STORE OBJECT IN DESSION

}

}

**Default2.aspx:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Data;

using System.Data.SqlClient;

public partial class Default2 : System.Web.UI.Page

{

SqlConnection con;

SqlDataAdapter adp;

protected void Page\_Load(object sender, EventArgs e)

{

DataSet ds = new DataSet();

ds = Session["mydataset"] as DataSet;

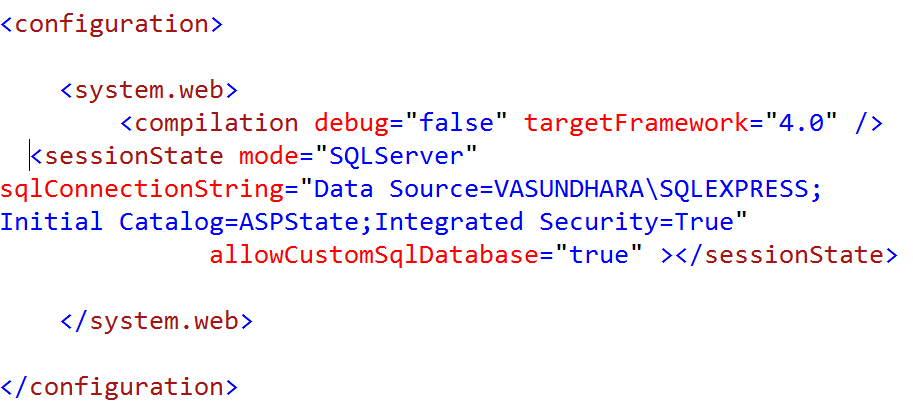
GridView1.DataSource = ds;

GridView1.DataBind();

}

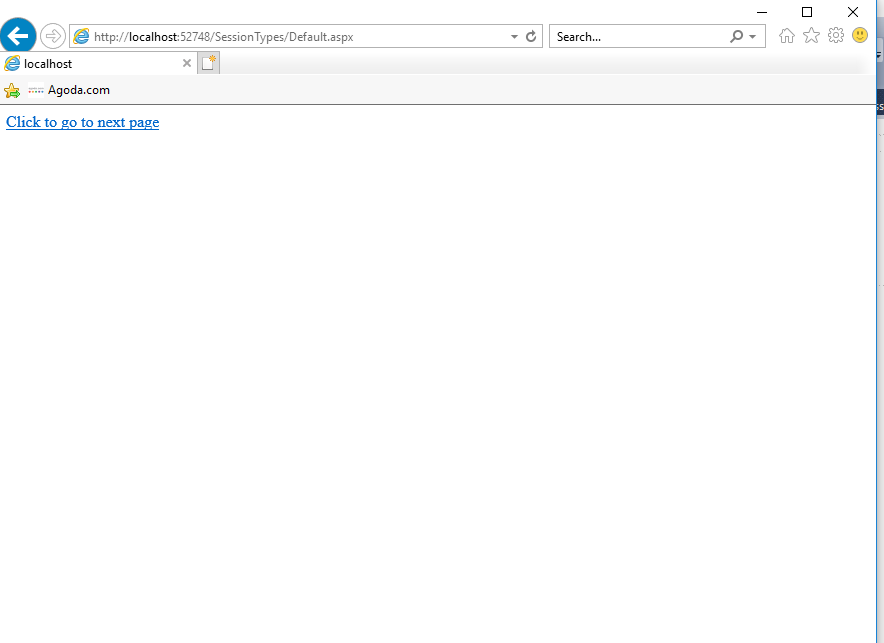
}

**4) Web.Config File:**

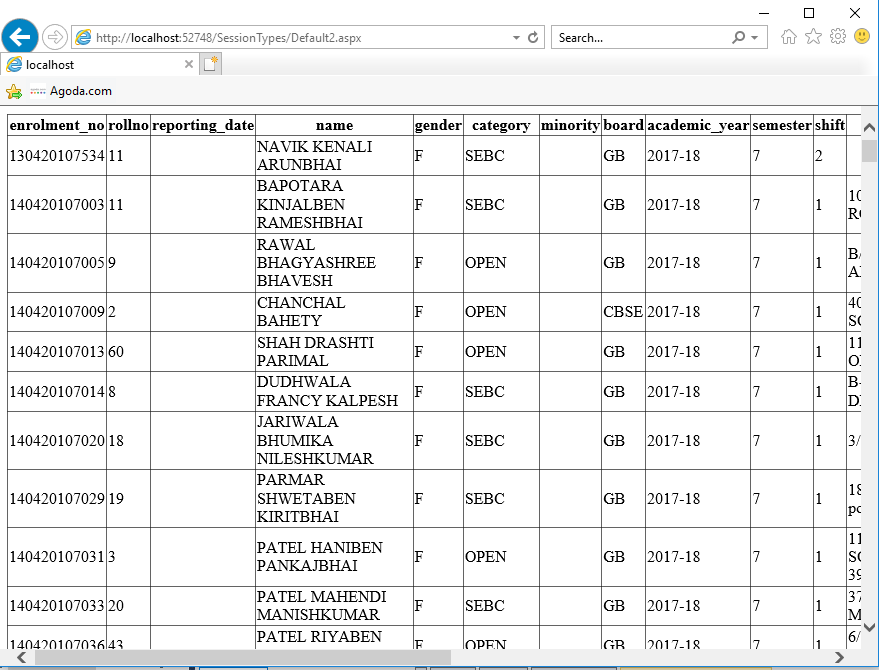
****

**Output:**

**Default.aspx**



**Default2.aspx**



**Program 7 :**

**AIM** **:-** Create a Website that display Advertisement using Adrotator control.

**Program :-**

**Default.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default6.aspx.cs" Inherits="Default6" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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

<head runat="server">

<title></title>

</head>

<body>

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

<div style="width: 982px"><asp:AdRotator ID="AdRotator1" runat="server" AdvertisementFile ="~/XMLFile.xml" DataSourceID="XmlDataSource2" >

</asp:AdRotator>

<asp:XmlDataSource ID="XmlDataSource2" runat="server" DataFile="~/XMLFile.xml">

</asp:XmlDataSource>

</div>

</form>

</body>

</html>

**XMLFile.xml**

<?xml version="1.0" encoding="utf-8" ?>

<Advertisements>

<Ad>

<ImageUrl >~/books.jpg</ImageUrl>

<NavigateUrl>http://www.google.com</NavigateUrl>

<AlternateText>Noise Play</AlternateText>

<Impressions>1</Impressions>

<Keyword>flowers</Keyword>

</Ad>

<Ad>

<ImageUrl >~/images.jpg</ImageUrl>

<NavigateUrl>http://www.google.com</NavigateUrl>

<AlternateText> Android</AlternateText>

<Impressions>2</Impressions>

</Ad>

</Advertisements>

**Output:**





**Program 8 :**

**AIM** **:-** Create a Webpage to filter data in the GridView based on the option selected in the

DropDownList.

**Program :-**

**Default.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/MasterPage3.master" AutoEventWireup="true" CodeFile="6\_book.aspx.cs" Inherits="Default13" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server">

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" Runat="Server">

<html>

<head>

<title>Reference Book</title>

<link rel="stylesheet" href="css1.css">

<link rel="stylesheet" href="css2.css">

<style>

body

{

background-image: url(bgi.jpg);

background-repeat: no-repeat;

background-attachment: fixed;

background-size: 100% 100% ;

}

#con

{

margin-top: -2.5%;

margin-left: 45%;

}

</style>

</head>

<body>

<div class="pink\_bg" style="background-color:lightpink; margin-top: 50px">

<form method="post" action="/home/login?">

<h1 align=center style="color:darkmagenta; margin-top:-1%;font-family: cursive; padding-top:-93%;">Reference Book</h1>

<div>

<form method="post" action="/home/login?">

<p>

<img class="book" alt="BookSearchicon" src="bksi.png">

<label for="book">Search By Subject:</label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

</img>

<img class="book" alt="bookicon" src="bki1.png"><span><label for="Password">

Book of Subject:</label></span><br />

</p>

<div style="margin-left: 12%; height:10%">

<asp:DropDownList ID="DropDownList1" runat="server" AutoPostBack="True"

onselectedindexchanged="DropDownList1\_SelectedIndexChanged">

<asp:ListItem Selected="True">5</asp:ListItem>

<asp:ListItem>6</asp:ListItem>

</asp:DropDownList>

<asp:DropDownList ID="DropDownList2" runat="server"

DataSourceID="SqlDataSource1" DataTextField="sub" DataValueField="sub"

<asp:ListItem>Analysis and Designs of Algorithms</asp:ListItem>

<asp:ListItem>System Programming</asp:ListItem>

<asp:ListItem>Object Oriented Programming using JAVA</asp:ListItem>

<asp:ListItem>Cyber Security</asp:ListItem>

<asp:ListItem>Microprocessor and Interfacing</asp:ListItem>

</asp:DropDownList>

<asp:SqlDataSource ID="SqlDataSource1" runat="server"

ConnectionString="<%$ ConnectionStrings:s15cos124ConnectionString %>"

SelectCommand="SELECT [sub] FROM [view\_book1] WHERE ([sem] = @sem)">

<SelectParameters>

<asp:ControlParameter ControlID="DropDownList1" Name="sem"

PropertyName="SelectedValue" Type="Decimal" />

</SelectParameters>

</asp:SqlDataSource>

</div>

<br />

&nbsp;<asp:Button ID="Button1" runat="server" onclick="Button1\_Click"

Text="Want to Upload ?"/>

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<asp:Button ID="Button2" runat="server" onclick="Button2\_Click"

Text="View Available Books" />

&nbsp;&nbsp;&nbsp;&nbsp;

<br />

<asp:Button ID="Button3" runat="server" Text="View Book"

onclick="Button3\_Click" />

<br />

<br />

<asp:Image ID="Image1" runat="server" Height="228px" Width="218px" />

<br />

<br />

<br />

<asp:SqlDataSource ID="SqlDataSource2" runat="server"

ConnectionString="<%$ ConnectionStrings:s15cos124ConnectionString %>"

SelectCommand="SELECT login.name, login.contact,

login.email\_id FROM login INNER JOIN book ON login.user\_id = book.user\_id">

</asp:SqlDataSource>

<center>

<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="False"

DataSourceID="SqlDataSource3" BackColor="White" BorderColor="#CC9966"

BorderStyle="None" BorderWidth="1px" CellPadding="4">

<Columns>

<asp:BoundField DataField="name" HeaderText="Name" SortExpression="name" />

<asp:BoundField DataField="contact" HeaderText="Contact Number"

SortExpression="contact" />

<asp:BoundField DataField="email\_id" HeaderText="Email ID"

SortExpression="email\_id" />

<asp:BoundField DataField="sub\_name" HeaderText="Subject Name" />

</Columns>

<FooterStyle BackColor="#FFFFCC" ForeColor="#330099" />

<HeaderStyle BackColor="#990000" Font-Bold="True" ForeColor="#FFFFCC" />

<PagerStyle BackColor="#FFFFCC" ForeColor="#330099" HorizontalAlign="Center"

<RowStyle BackColor="White" ForeColor="#330099" />

<SelectedRowStyle BackColor="#FFCC66" Font-Bold="True" ForeColor="#663399"

<SortedAscendingCellStyle BackColor="#FEFCEB" />

<SortedAscendingHeaderStyle BackColor="#AF0101" />

<SortedDescendingCellStyle BackColor="#F6F0C0" />

<SortedDescendingHeaderStyle BackColor="#7E0000" />

</asp:GridView>

</center>

<asp:SqlDataSource ID="SqlDataSource3" runat="server"

ConnectionString="<%$ ConnectionStrings:s15cos124ConnectionString %>"

SelectCommand="SELECT login.[name], login.[contact], login.[email\_id], book.[sub\_name] FROM [login] INNER JOIN book ON login.[user\_id]=book.[user\_id]">

</asp:SqlDataSource>

</p>

<h3 style="color:brown;">"Whenever you read a good book, somewhere in the world a door opens to allow in more light.</h3>

<p align=right style="font-family:fantasy;padding-right: 4%;">–Vera Nazarian</p>

</p>

</form>

</div>

</div>

</body>

</html>

</asp:Content>

**Default.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.IO;

using System.Data.SqlClient;

using System.Data;

public partial class Default13 : System.Web.UI.Page

{

SqlConnection con;

SqlDataAdapter sda;

SqlCommand cmd;

DataSet ds;

protected void Page\_Load(object sender, EventArgs e)

{

}

con = new SqlConnection(@"Data Source=.\SQLEXPRESS;AttachDbFilename=C:\Users\Ruchita\Documents\s15cos124.mdf;Integrated Security=True;Connect Timeout=30;User Instance=True");

if (con.State != ConnectionState.Open)

{

con.Open();

}

}

protected void Button1\_Click(object sender, EventArgs e)

{

Response.Redirect("6\_book\_1\_upload.aspx");

}

protected void GridView1\_SelectedIndexChanged(object sender, EventArgs e)

{

}

protected void Button2\_Click(object sender, EventArgs e)

{

}

protected void DropDownList1\_SelectedIndexChanged(object sender, EventArgs e)

{

}

protected void Button3\_Click(object sender, EventArgs e)

{

con = new SqlConnection(@"Data Source=.\SQLEXPRESS;AttachDbFilename=C:\Users\Ruchita\Documents\s15cos124.mdf;Integrated Security=True;Connect Timeout=30;User Instance=True");

con.Open();

cmd = new SqlCommand("select img\_url from view\_book1 where sub='" + DropDownList2.Text + "'", con);

SqlDataReader dr = cmd.ExecuteReader();

while (dr.Read())

{

string img\_to\_show;

Image1.Dispose();

img\_to\_show = dr["img\_url"].ToString();

Image1.ImageUrl = img\_to\_show;

Response.Write(img\_to\_show);

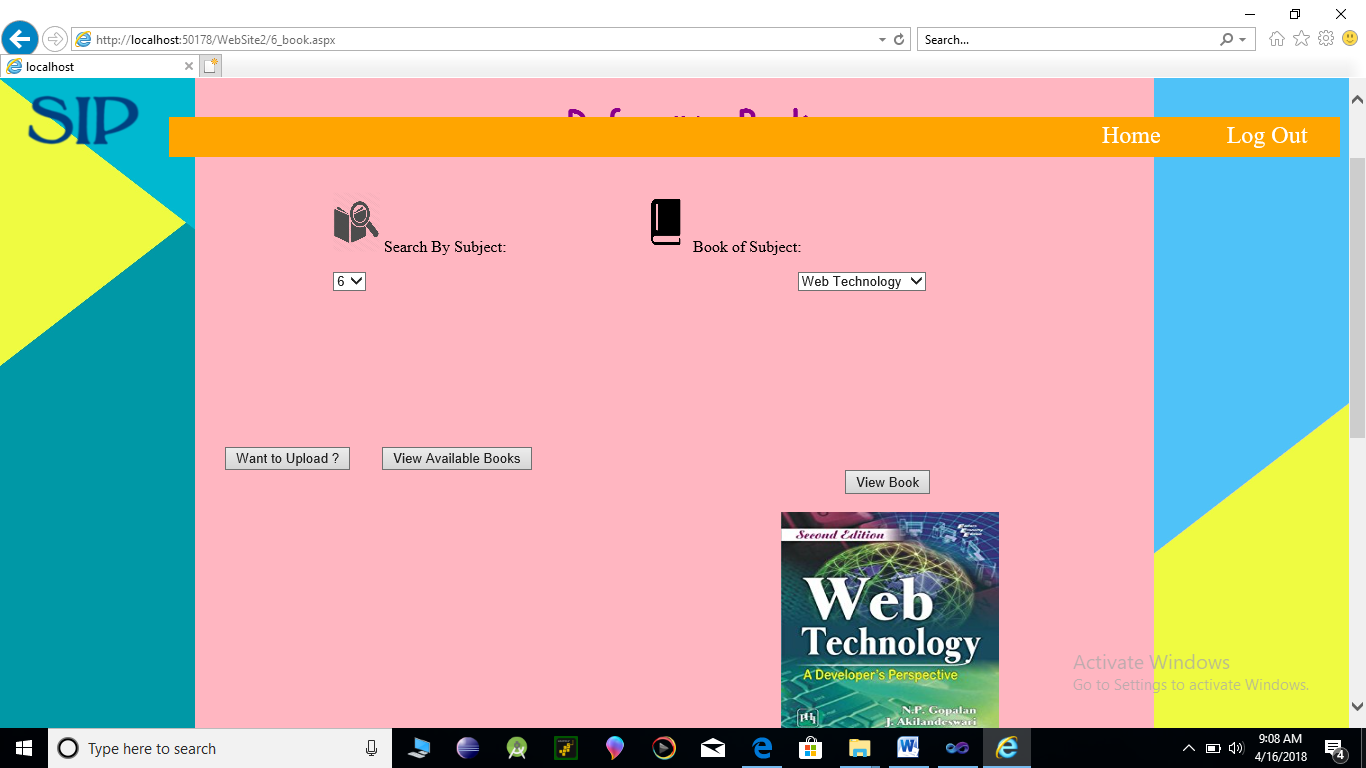
}

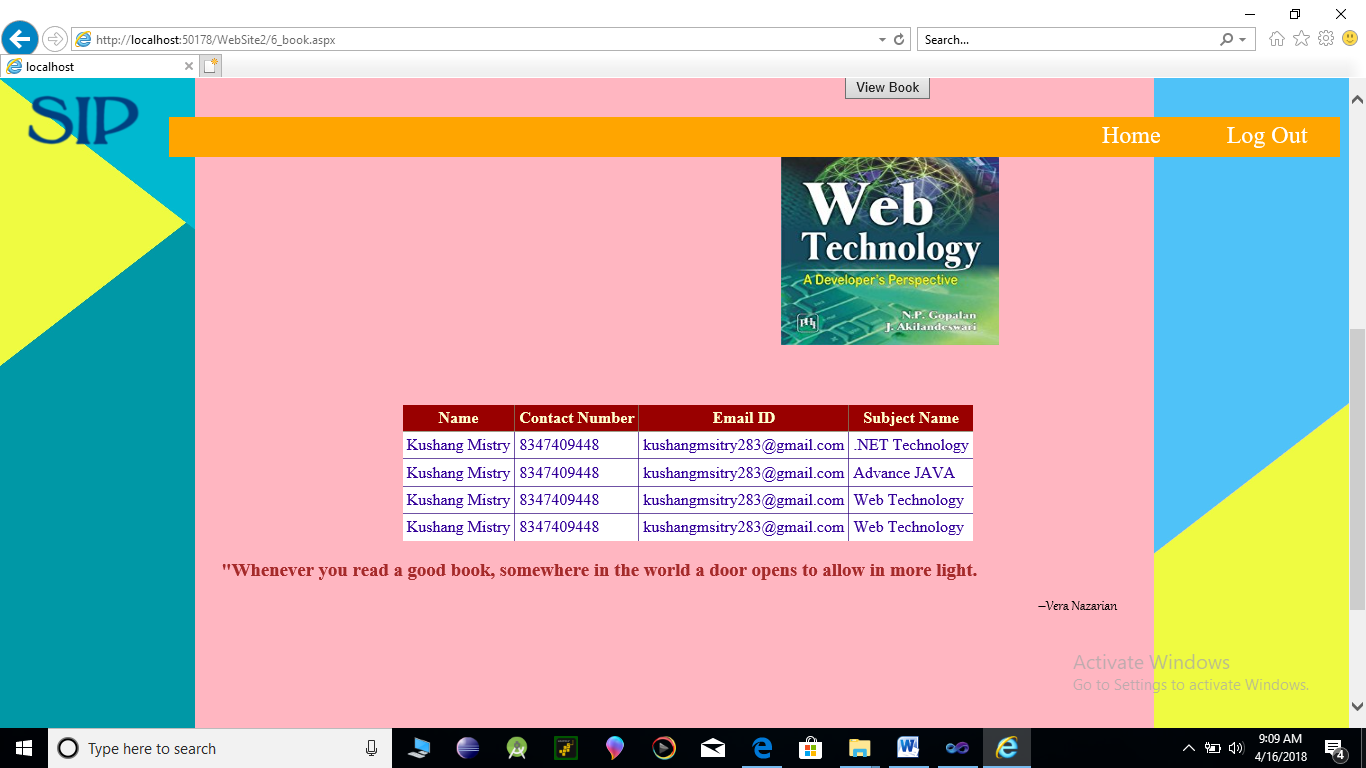
con.Close();

}

}

**Output:**





**WEB SERVICE**

**Program:-** To implement simple interest calculator and currency conversion using web

service.

**Default.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class \_Default : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void RadioButtonList1\_SelectedIndexChanged(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

if (RadioButtonList1.SelectedIndex == 0)

{

Response.Redirect("Default2.aspx");

}

else

{

Response.Redirect("Default3.aspx");

}

}

}

**Default2.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class Default2 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

double a = Convert.ToDouble(TextBox1.Text);

double b = Convert.ToDouble(TextBox2.Text);

double c = Convert.ToDouble(TextBox3.Text);

localhost.Service l = new localhost.Service();

Label4.Text = l.interest\_calculator(a, b, c).ToString();

}

}

**Default3.aspx.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class Default3 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

double a=Convert.ToDouble(TextBox1.Text);

double b=Convert.ToDouble(TextBox2.Text);

localhost.Service l2 = new localhost.Service();

Label3.Text = l2.c\_to\_f\_conversion(a).ToString();

Label4.Text = l2.f\_to\_c\_conversion(b).ToString();

}

}

**Service.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.Services;

[WebService(Namespace = "http://tempuri.org/")]

[WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1\_1)]

// To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the following line.

// [System.Web.Script.Services.ScriptService]

public class Service : System.Web.Services.WebService

{

public Service ()

{ }

[WebMethod]

public string HelloWorld()

{

return "Hello World";

}

[WebMethod]

public double interest\_calculator(double p,double r,double t)

{

double ans = (p \* r \* t) / 100;

return ans;

}

[WebMethod]

public double c\_to\_f\_conversion(double a)

{

double ans =((1.8)\*a) + 32;

return ans;

}

[WebMethod]

public double f\_to\_c\_conversion(double b)

{

double ans = (b - 32) / 1.8;

return ans;

}

}

**Output:**

