

EXPT.  
NO. 1

NAME

Hello World

M T W T F S S

Page No.:

Date:

YOUVA

→ Web.aspx.cs:-

→ namespace hello {

{  
public partial class WebForm1 : System.Web.UI.Page{  
protected void Page\_Load(object sender,  
EventArgs e)

{

{  
protected void Unnamed1\_Click(object sender,  
EventArgs e)

{

Response.Write("Hello World");

{

{

→ Web.aspx:-<@Page Language="C#" AutoEventWireup="true"  
CodeBehind="Web.aspx.cs" Inherits="hello.Web" %><html xmlns="http://www.w3.org/1999/xhtml"><head><sup>runat="server"</sup>

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

&lt;/head&gt;

&lt;form id="form1" runat="server"&gt;

&lt;div&gt;

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```
<asp:Button runat="server" Text="Button" OnClick="
  Unnamed1_Click"></asp:Button>
</div>
</form>
</body>
</html>
```

⇒ output:-

helloworld

Button

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## FileUpload control

→ WebForm1.aspx:-

```
<%@Page Language="c#" AutoEventWireup="true"
  CodeBehind="WebForm1.aspx.cs" Inherits="demo.
  WebForm1" %>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head runat="server">
    <title></title>
  </head>
  <form id="form1" runat="server">
    <div>
      <asp:FileUpload runat="server" ID="FileUpload1">
    </asp:FileUpload>
    <asp:Button runat="server" Text="Button"
      OnClick="Unnamed1_Click" />
    </div>
  </form>
</body>
</html>
```

→ WebForm1.aspx.cs:-

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

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namespace demo

```
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_UploadObject(sender,
            EventArgs e)
        {
        }
        protected void btnUpload_Click(object sender,
            EventArgs e)
        {
            SqlConnection cn = new SqlConnection("Data Source=.;
            Initial Catalog=mydb; Integrated Security=True;
            Encrypt=False");
            string path = Server.MapPath("~/Upload/");
            string extension = System.IO.Path.GetExtension
                (FileUpload1.FileName);
            if (extension == ".pdf")
            {
                Random rn = new Random();
                string newFilename = rn.Next() + extension;
                FileUpload1.SaveAs(path + newFilename);
                string sql = "Insert into fileupload values
                    '" + rn.Next() + "', '" + newFilename + "'";
                SqlDataAdapter sqlDataAdapter da = new
                    SqlDataAdapter(sql);
                DataTable dt = new DataTable();
                da.Fill(dt);
            }
        }
    }
}
```

Teacher's Signature

if (cn == ".pdf")

```
{
    Response.Write("File Uploaded");
}
else {
    Response.Write("Select PDF File");
}
}
```

⇒ output:-

css1.pdf

File Uploaded.

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3 Advertiser Controller

→ webform1.aspx

```
<%@ Page Language="c#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="
WebApplication1.WebForm1" %>
```

```
<!DOCTYPE html>
```

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

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

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

```
</head>
```

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

```
<div>
```

```
<asp:AdRotator id="AdRotator1" runat="server"
```

```
AdvertisementFile="a/xmlfile1.xml"/>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

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→ xmlfile1.xml

```
<Advertisements>
```

```
<Ad>
```

```
<ImageUrl> url of image </ImageUrl>
```

```
<AlternateText> Image name </AlternateText>
```

```
<NavigateUrl> navigate page url </NavigateUrl>
```

```
</Ad>
```

```
</Advertisements>
```

⇒ output:-

Google → www.google.com

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→ WebForm2.aspx

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

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title> </title>
</head>
<body>
    <form id="form1" runat="server">
```

```
        <asp:TextBox ID="TextBox1" runat="server">
        </asp:TextBox>
        <asp:RequiredFieldValidator ID="RequiredFieldValidator1"
        runat="server" ControlToValidate="TextBox1"
        ErrorMessage="required"> </asp:RequiredFieldValidator>
```

```
</div>
```

```
        <asp:TextBox ID="TextBox2" runat="server"> </asp:TextBox>
        <asp:RangeValidator ID="RangeValidator1" runat="server"
        ControlToValidate="TextBox2"
        ErrorMessage="required a character" MaximumValue=
        "6" SetFocusOnError="True">
        </asp:RangeValidator>
```

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```
</p>
```

```
<asp:TextBox ID="TextBox3" runat="server"
    style="margin-bottom: 1px"> </asp:TextBox>
    <asp:CompareValidator ID="CompareValidator1"
    runat="server" ControlToCompare="TextBox3"
    ControlToValidate="TextBox4" ErrorMessage=
    "password not matched"> </asp:CompareValidator>
```

```
</p>
```

```
<p>
```

```
<asp:TextBox ID="TextBox4" runat="server">
    </asp:TextBox>
```

```
</p>
```

```
<p>
```

```
<asp:TextBox ID="TextBox5" runat="server">
    </asp:TextBox>
```

```
</p> <asp:RegularExpressionValidator ID="RegularExpression
    Validator1" runat="server" ControlToValidate=
    "TextBox5" ErrorMessage="10 digit required"
    ValidationExpression="^\d{10}$"> </asp:RegularExpression
    Validator>
```

```
</p>
```

```
<asp:ValidateSummary ID="ValidationSummary1"
    runat="server">
```

```
</p>
```

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

```
</p>
```

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

⇒ output:-

required  
 required 3 character  
 password not matched  
  
 10 digit required

- required
- password not matched
- 10 digit required

Button

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Validating ViewState, query string, cookie, session

→ ViewState.aspx.cs

using System;  
using System.Web;

namespace login

{  
public partial class ViewState : System.Web.UI.Page

{  
protected void store-button\_Click(object sender,  
EventArgs e)

{  
ViewState["view"] = TextBox1.Text;  
TextBox1.Text = "";

};  
protected void reset-button\_Click(object sender,

EventArgs e)

{

};

}

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→ output

ASDF

store

test

→ sessionQueryString.aspx:-

using System;

namespace WebApplication1

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

{  
protected void Button\_Click(object sender, EventArgs e)

{  
session["user\_id"] = TextBox1.Text;  
Response.Redirect("home.aspx?udata=" +  
TextBox2.Text);  
}

}

}

Teacher's Signature: \_\_\_\_\_

→ home.aspx

namespace WebApplication1

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

{

protected void Page\_Load()

{

Response.Cache.SetExpires(DateTime.Now.Add  
Minutes(1));

Response.Cache.SetCacheability(HttpCacheability.NoCache);

Response.Cache.SetNoStore();

if (Session["user\_id"] == null)

{

Response.Redirect("login.aspx");

}

else

{

string un = Session["user\_id"].ToString();

string pwd = Request.QueryString["udata"];

Response.Write("Username is: " + un);

Response.Write("Password is: " + pwd);

}

}

protected void LinkButton1\_Click() {

session.Clear();

session.Abandon();

Response.Redirect("login.aspx");

}

}

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⇒ Output:

username	password
user1	pass1
<input type="button" value="login"/>	

⇒ Username is: user1  
password is: pass1  
Logout

⇒ cookie.aspx:

```
namespace WebApplications {
    public partial class cookie : System.Web.UI.Page {
        protected void Page_Load() {
            HttpCookie ck = new HttpCookie("Temp");
            ck.Expires.AddDays(30);
            ck["userdata"] = "Test1";
            Response.Cookies["userdata"] = ck;
        }
    }
}
```

⇒ Output:

Test1

## Application State

```
class Application : Page {
    Inherits = "System.Web.
    HttpApplication" %>
    <script runat="server">
```

```
void Application_Start(object sender, EventArgs e)
{
```

```
    Application["AppStartTime"] = DateTime.Now;
    Application["AppStateData"] = "Initial Application
    state Data";
```

```
    System.Diagnostics.Debug.WriteLine("Application started
    at: " + Application["AppStartTime"].ToString());
}
```

```
void Application_Error(object sender, EventArgs e)
{
```

```
    Exception ex = Server.GetLastError();
    System.Diagnostics.Debug.WriteLine("Application
    Error: " + ex.Message);
    Server.ClearError();
    Response.Redirect("~/ErrorPage.aspx");
}
```

```
void Session_Start(object sender, EventArgs e)
{
```

```
    Session["UserStartTime"] = DateTime.Now;
    System.Diagnostics.Debug.WriteLine("Session
    started at: " + Session["UserStartTime"].ToString());
}
```



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```
void session_End(object sender, EventArgs e)
{
    System.Diagnostics.Debug.WriteLine("Session
    End.");
}
```

```
void Application_End(object sender, EventArgs e)
{
    System.Diagnostics.Debug.WriteLine("Application
    Ending.");
}
```

### ⇒ output:-

"Application started at : 1/7/2025 10:05:00 AM"  
 "Application Error: Some Error message."  
 "Session started at : 1/7/2025 10:05:00 AM"  
 "Session End"  
 "Application Ending"

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### CRUD operation with webservice (API)

#### ⇒ CRUDWEB FORM:-

```
<%@ Page Language="C#" AutoEventWireUp="false"
    CodeBehind="CRUDWEBFORM.aspx.cs" Inherits="PSP.
    NETCRUDAPI.CRUDWEBFORM" %>
```

```
<!DOCTYPE html>
<html xmlns="https://www.w3.org/1999/xhtml">
<head runat="server">
    <title>CRUD API</title>
</head>
<body>
```

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

```
            <div>
                <label for="searchtxt">Search</label>
```

```
                <asp:TextBox ID="searchtxt" runat="server"/>
                <asp:Button ID="searchbtn" runat="server" Text="
                Search" onclick="searchbtn_Click"/>
            </div>
```

```
        <div>
            <label for="nametxt">Name</label>
```

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

```
        <div> <label for="resulttxt">Result</label>
```

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

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```

</div>
<asp:Button id="insertbtn" runat="server" Text="
  Insert" onclick="insertbtn_Click"/>
<asp:Button id="updatebtn" runat="server" Text="
  Update" onclick="updatebtn_Click"/>
<asp:Button id="deletebtn" runat="server" Text="
  Delete" onclick="deletebtn_Click"/>
</div>
</form>
</div>
</body>
</html>
  
```

⇒ CRUDWEBFORM.aspx.cs

```

using System;
using System.Data;
using System.Data.SqlClient;
using ASP.NETCRUDAPI;
namespace ASP.NETCRUDAPI
{
    public partial class CRUDWEBFORM : System.Web.
      UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
    }
  
```

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```

protected void searchbtn_Click() {
    apicrudSoapClient service = new apicrudSoapClient();
    var data = service.search(searchtxt.Text);
    namebtx.Text = "";
    resulttxt.Text = "";
    if (data[0] == "No Data") {
        namebtx.Text = data[0].ToString();
        resulttxt.Text = data[0].ToString();
    }
    else {
        Response.Write("No Data Found on this Id.");
    }
}

protected void insertbtn_Click() {
    apicrudSoapClient service = new apicrudSoapClient();
    var data = service.insert(namebtx.Text, resulttxt.Text);
    if (data[0] == "Inserted") {
        Response.Write("Data Inserted successfully");
    }
    else if (data[0] == "Error") {
        Response.Write("Something went wrong");
    }
    namebtx.Text = "";
    resulttxt.Text = "";
}
  
```

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```

protected void updatebtn_click() {
    apicrudSoapClient service = new apicrudSoapClient();
    var data = service.update(searchtxt.Text, name.txt.
    Text, result.txt.Text);
    if (data[0] == "Updated")
    {
        Response.Write("Data updated successfully");
    }
    else if (data[0] == "Error")
    {
        Response.Write("Something went wrong");
    }
    name.txt.Reset();
    result.txt.Reset();
}

```

```

protected void deletebtn_click() {
    crudapiSoapClient service = new crudapiSoapClient();
    var data = service.delete(delete searchtxt.Text);
    if (data[0] == "deleted")
    {
        Response.Write("Data deleted successfully");
    }
    else if (data[0] == "Error")
    {
        Response.Write("Something went wrong");
    }
}

```

ok 10/3/23

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30. Webservice (API)

⇒ CRUDMethodsAPI.aspx.cs :-

```

using System;
using System.Data;
using System.Data.SqlClient;
using System.Data.SqlClient;
using System.Web;
using System.Web.Services;

```

namespace CRUDAPI

{

```

    public Webservice (Namespace = "http://tempuri.org/")
    [WebServiceBinding (ConformsTo = WsiProfiles.BasicProfile10)]
    [System.ComponentModel.ToolboxItem (false)]

```

```

    public class Webservice : System.Web.Services.Webservice
    {
        SqlConnection cn = new SqlConnection ("");
        [WebMethod]

```

```

        public string[] search (string id) {
            SqlDataAdapter da = new
            SqlDataAdapter ("select * from result where id = " + id + "", cn);
            string sql = "select * from result where id = " + id + "";
            SqlDataAdapter da = new SqlDataAdapter (sql, cn);
            DataTable dt = new DataTable ();
            da.Fill (dt);
            if (dt.Rows.Count > 0) {
                string[] dataarray = new string[2];

```

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```

if (dt.Rows.Count == 1)
{
    var name = dt.Rows[0][1].ToString();
    var result = dt.Rows[0][2].ToString();
    dataGridView1.Rows.Add(name, result);
}
else
{
    dataGridView1.Rows.Add("No data");
}
return dataGridView1;
}

```

```

public string[] insert(string name, string result)
{
    string sql = "insert into result (name, result) values ('" + name + "', '" + result + "')";
    SqlDataAdapter da = new SqlDataAdapter(sql, con);
    DataTable dt = new DataTable();
    da.Fill(dt);
    string[] dataarray = new string[2];
    if (dt.Rows.Count == 0)
    {
        dataarray[0] = "Inserted";
    }
    else
    {
        dataarray[0] = "Error";
    }
    return dataarray;
}

```

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```

public string[] update(string id, string name, string result)
{
    string sql = "update result set name = '" + name + "', result = '" + result + "' where id = '" + id + "'";
    SqlDataAdapter da = new SqlDataAdapter(sql, con);
    DataTable dt = new DataTable();
    da.Fill(dt);
    if (dt.Rows.Count == 0)
    {
        dataarray[0] = "updated";
    }
    else
    {
        dataarray[0] = "Error";
    }
    return dataarray;
}

```

```

public string[] delete(string id)
{
    string sql = "delete from result where id = '" + id + "'";
    SqlDataAdapter da = new SqlDataAdapter(sql, con);
    DataTable dt = new DataTable();
    da.Fill(dt);
    if (dt.Rows.Count == 0)
    {
        dataarray[0] = "Deleted";
    }
    else
    {
        dataarray[0] = "Error";
    }
    return dataarray;
}

```

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⇒ output:-

Enter Id
Search
Enter Name
Enter Result
Insert Update Delete

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Page . Topic Caching

→ webform1.aspx (Page caching)

```
<%@ OutputCache Duration="60" VaryByParam="none" %>
<html> <head>
  <title> Cache Example </title>
</head>
<body>
  <h1> This Page is cached for 1 minute </h1>
  <p> Page rendered at : <% = DateTime.Now %> </p>
</body>
</html>
```

⇒ output:-

This Page is cached for 1 minute.  
Page rendered at : 2:00:00 PM

// after one minute of Reload

This Page is cached for 1 minute  
Page rendered at : 2:01:00 PM

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→ webform12.aspx.cs

```
using System;
using System.Web.Caching;
using System.Web.UI;
```

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

```
{
    protected void Page_Load(object sender, e)
    {
        string cachedData = Cache["Test"] as string;
```

```
        if (cachedData != null)
```

```
        {
            lblMessage.Text = "Data from Cache: " + cachedData;
```

```
        }
        else
```

```
        {
            string data = "Hello World";
```

```
            Cache.Insert("Test", data, null, DateTime.Now.AddSeconds(5), Cache.NoSlidingExpiration);
```

```
            lblMessage.Text = "Data retrieved and cached: " + data;
```

```
        }
```

```
}
```

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→ output :-

1. output :-

Data retrieved and cached: Hello World

2. output :-

Data from cache: Hello World

Teacher's Signature: \_\_\_\_\_



## Read And Writing with dataset in XML

```

using System;
using System.Configuration;
using Data;
using System.Data.SqlClient;
using System.Web.UI;

public partial class webform1 : System.Web.UI.Page
{
    private string connectionString;
    SqlConnection cn = new SqlConnection(" ");
    protected void Page_Load()
    {
        if (IsPostBack)
        {
            LoadDataFromSql();
        }
        else
        {
            private void LoadDataFromSql()
            {
                SqlConnection cn = new SqlConnection(" ");
                SqlDataAdapter da = new SqlDataAdapter("select * from Table", cn);
                DataSet ds = new DataSet();
                da.Fill(ds);
                GridView1.DataSource = ds;
                GridView1.DataBind();
            }
        }
    }
}

```

Teacher's Signature

```

protected void writeToXML()
{
    SqlDataAdapter da = new SqlDataAdapter("select * from Table", cn);
    DataSet ds = new DataSet();
    da.Fill(ds);
}

```

```

string xmlFilePath = Server.MapPath("~/data.xml");
ds.WriteXml(xmlFilePath);

```

```

lblMessage.Text = "Data saved to XML successfully";

```

```

protected void btnLoadFromXML_Click()
{
    string xmlFilePath = Server.MapPath("~/data.xml");
    DataSet ds = new DataSet();
    ds.ReadXml(xmlFilePath);
}

```

```

GridView1.DataSource = ds;
GridView1.DataBind();

```

```

lblMessage.Text = "Data loaded from XML successfully";

```

Teacher's Signature

⇒

output:-

ID	Name	Value
1	Item1	10
2	Item2	20
3	Item3	30

Write

Read

→ xmlfile

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

<Table>

<ID> 1 </ID>

<Name> Item1 </Name>

<Value> 10 </Value>

</Table>

<Table>

<ID> 2 </ID>

<Name> Item2 </Name>

<Value> 20 </Value>

<Table>

<Table>

<ID> 3 </ID>

<Name> Item3 </Name>

<Value> 30 </Value>

</Table>

</data>

Teacher's Signature: \_\_\_\_\_