



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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body style="height: 229px">
  <form id="form1" runat="server">
    <div style="height: 235px">
      <asp:Label ID="Label1" runat="server" Text="Name is "></asp:Label>
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
      <br />
      <br />
      <asp:Label ID="Label2" runat="server" Text="Password is "></asp:Label>
      <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
    </div>
  </form>
</body>
</html>
```

WebForm2.aspx.cs :

```
using System;
using System.Web;

namespace Cookies
{
  public partial class WebForm2 : System.Web.UI.Page
  {
    protected void Page_Load(object sender, EventArgs e)
    {
      HttpCookie reqCookies = Request.Cookies["userInfo"];
      TextBox1.Text = reqCookies["UserName"].ToString();
      TextBox2.Text = reqCookies["Password"].ToString();
    }
  }
}
```

Output:

Cookie Example :

Eneter Name:

Enter Password:

Name is

Password is

b. Create a web application to demonstrate Form Security and Windows Security with proper

Authentication and Authorization properties.

**Code:**

**Web.config :**

```
<?xml version="1.0" encoding="utf-8"?>
<!--
  For more information on how to configure your ASP.NET application, please visit
  https://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
  <system.web>
    <compilation debug="true" targetFramework="4.7.2" />
    <httpRuntime targetFramework="4.7.2" />

    <!-- Configure Forms Authentication -->
    <authentication mode="Forms">
      <forms loginUrl="Login.aspx" defaultUrl="Default.aspx">
        <credentials passwordFormat="Clear">
          <!-- Users with their respective passwords -->
          <user name="Admin" password="Admin"/>
          <user name="User" password="123456"/>
        </credentials>
      </forms>
    </authentication>

    <!-- Authorization rules -->
    <authorization>
      <!-- Allow specific users to access secured pages -->
      <allow users="Admin,User"/>
      <!-- Deny anonymous users (not logged in) -->
      <deny users="?" />
    </authorization>
  </system.web>
  <system.codedom>
    <compilers>
      <compiler language="c#;cs;csharp" extension=".cs"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4"
compilerOptions="/langversion:default /nowarn:1659;1699;1701" />
      <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider,
Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=2.0.1.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" warningLevel="4"
compilerOptions="/langversion:default /nowarn:41008 /define:_MYTYPE=\&quot;Web\&quot;
/optionInfer+" />
    </compilers>
  </system.codedom>
</configuration>
```

**Login.aspx :**

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

<!DOCTYPE html>
<html>
<head>
  <title>Login</title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <h2>Login Page</h2>
      Username: <asp:TextBox ID="TextBox1" runat="server" /><br /><br />
```

```

        Password: <asp:TextBox ID="TextBox2" runat="server" TextMode="Password" /><br />
    /><br />
    <asp:Button ID="Button1" runat="server" Text="Login" OnClick="Button1_Click" />
    <br /><br />
    <asp:Label ID="Label4" runat="server" ForeColor="Red" />
</div>
</form>
</body>
</html>

```

**Login.aspx.cs:**

```

using System;
using System.Web.Security;

namespace form_security
{
    public partial class Login : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            string uname = TextBox1.Text;
            string pass = TextBox2.Text;

            // Use FormsAuthentication to validate the user credentials (stored in Web.config)
            if (FormsAuthentication.Authenticate(uname, pass))
            {
                // If credentials are valid, redirect the user to the default page (WebForm13.aspx)
                FormsAuthentication.RedirectFromLoginPage(uname, false);
            }
            else
            {
                // Show error message if credentials are invalid
                Label4.Text = "Login Details are Invalid";
            }
        }
    }
}

```

**Default.aspx:**

```

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

```

```

<!DOCTYPE html>
<html>
<head>
    <title>Secured Page</title>
</head>
<body>
    <h1>Welcome, <% = Context.User.Identity.Name %>!</h1>
    <a href="Logout.aspx">Logout</a>
</body>
</html>

```

**Default.aspx.cs:**

```

using System;
using System.Web.Security;

namespace form_security
{
    public partial class Default : System.Web.UI.Page
    {

```

```
protected void Page_Load(object sender, EventArgs e)
{
    // Ensure the page is only accessed by authenticated users
    if (!User.Identity.IsAuthenticated)
    {
        Response.Redirect("WebForm12.aspx");
    }
}
}
```

**Logout.aspx:**  
<%@ Page Language = "C#" AutoEventWireup="true" CodeBehind="Logout.aspx.cs" Inherits="form\_security.Logout" %>

**Logout.aspx.cs:**

```
using System;
using System.Web.Security;

namespace form_security
{
    public partial class Logout : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            // Log out the user and redirect them to the login page
            FormsAuthentication.SignOut();
            Response.Redirect("Login.aspx");
        }
    }
}
```

**Output:**

