## PRACTICAL NO.07

## Write the program for the following:

a. Create a web application to demonstrate the use of different types of Cookies. Code:

```
WebForm1.aspx:
<a href="4"><%</a>
@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm1.aspx.cs"
Inherits="Cookies.WebForm1" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body style="height: 192px">
  <form id="form1" runat="server">
    <div style="height: 175px">
      <asp:Label ID="Label1" runat="server" Text="Cookie Example :"></asp:Label>
      <br />
      <br />
      <asp:Label ID="Label2" runat="server" Text="Eneter Name:"></asp:Label>
   
      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
      <br />
      <br />
      <asp:Label ID="Label3" runat="server" Text="Enter Password:"></asp:Label>
      <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
      <br />
      <br />
      <asp:Button ID="Button1" runat="server" OnClick="Button1 Click" Text="Next" />
    </div>
  </form>
</body>
</html>
WebForm1.aspx.cs:
using System;
using System.Web;
namespace Cookies
  public partial class WebForm1: System.Web.UI.Page
    protected void Page_Load(object sender, EventArgs e)
    protected void Button1 Click(object sender, EventArgs e)
      HttpCookie userInfo = new HttpCookie("userInfo");
      userInfo["UserName"] = TextBox1.Text;
      userInfo["Password"] = TextBox2.Text;
      userInfo.Expires = DateTime.Now.AddSeconds(5);
      Response.Cookies.Add(userInfo);
      Response.Redirect("WebForm2.aspx");
  }
}
```

## WebForm2.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm2.aspx.cs"</p>
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>
  </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:
                                       Ram
                     Enter Password: admin@123
                      Next
                     Name is Ram
                     Password is admin@123
```

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

```
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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" />
  <a href="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"</pre>
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"</p>
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=\"Web\"
/optionInfer+"/>
  </compilers>
 </system.codedom>
</configuration>
Login.aspx:
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Login.aspx.cs"</p>
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 />
```

```
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       Password: <asp:TextBox ID="TextBox2" runat="server" TextMode="Password" /><br/>br
/><br/>
       <asp:Button ID="Button1" runat="server" Text="Login" OnClick="Button1 Click" />
       <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:
<a href="mailto:spx.cs"><%</a> 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
  {
```

```
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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;
using System.Web.Security;

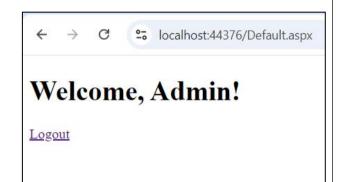
namespace form_security
{
    public partial class Logout : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            // Log out the user and redirect them to the login page
```

**Output:** 

}



FormsAuthentication.SignOut(); Response.Redirect("Login.aspx");



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Log	gin ]	Page	e	
Username: Admin123				
Passy	word:			
Logi	n			
Login	n Deta	ils are	e Inva	alid