

**Practical-10: HTTP Servlet based Web App Creation URL
SOURCE CODE**

```
Calender.java import java.io.PrintWriter;
import java.util.Calendar; import
java.util.GregorianCalendar; import
javax.servlet.ServletException; import
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet; import
javax.servlet.http.HttpServletRequest; import
javax.servlet.http.HttpServletResponse;

@WebServlet("/Practical10")
public class Practical10 extends HttpServlet { private
static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {

response.setIntHeader("Refresh",1); response.setContentType("text/html");

Calendar calendar=new GregorianCalendar();
int hour=calendar.get(Calendar.HOUR); int
minute=calendar.get(Calendar.MINUTE); int
second=calendar.get(Calendar.SECOND);

String am_pm;
    if(calendar.get(Calendar.AM_PM)==0)
        am_pm="AM";
    else
        am_pm="PM";
```

```
PrintWriter out=response.getWriter();
out.println("<br>Heading: " +getServletContext().getInitParameter("headingOfTheProject"));
out.println("<br>Address:" + getInitParameter("address")); out.println("<br><br><br>Auto
Refresh Page<br>");
out.println("Current time: "+ hour + ":" + minute + ":" + second + " " + am_pm);
    }
}
```

index.jsp

```
<% @ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
    <form action="index" method="get">
        Enter User Name:<input type="text" name="val1">
        Enter Password:<input type="text" name="val2">
        <input type="submit" value="login">
    </form>
</body>
</html>
```

Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID" version="4.0">

    <display-name>Practical 10</display-name>

    <context-param>

        <param-name>headingOfTheProject</param-name>

        <param-value>Practical10</param-value>

    </context-param>

    <servlet>

        <servlet-name>Practical10</servlet-name>
        <servlet-class>com.surya.servlet.calender</servlet-class>

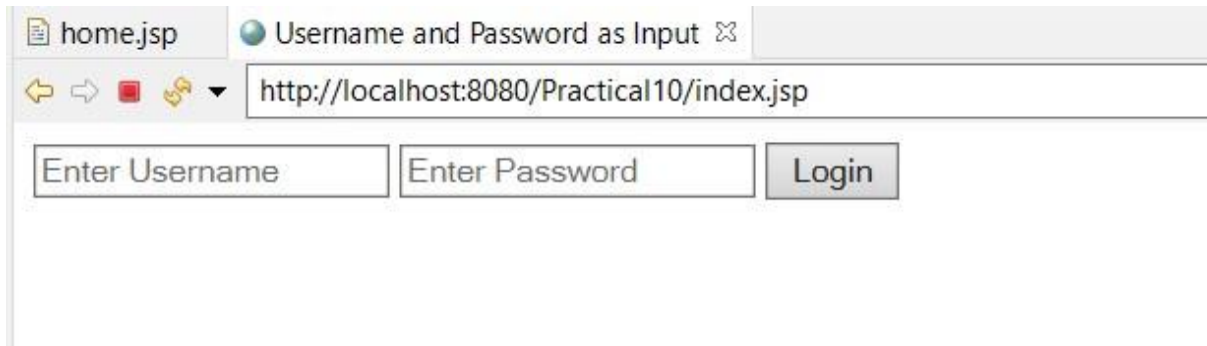
        <init-param>
            <param-name>address</param-name>
            <param-value>BEL Road</param-value>
        </init-param>

    </servlet>

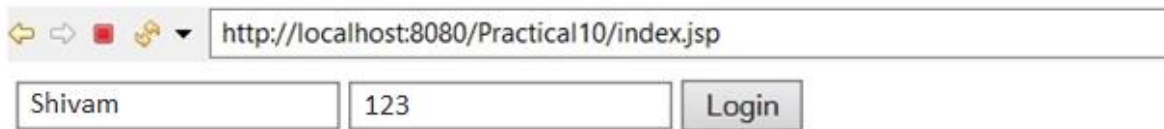
    <servlet-mapping>
        <servlet-name>calender</servlet-name>
        <url-pattern>/index</url-pattern>
    </servlet-mapping>

</web-app>
```

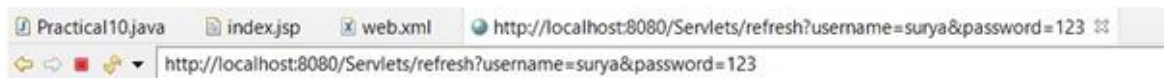
OUTPUT



The screenshot shows a web browser window with a single tab titled 'home.jsp'. The address bar displays 'http://localhost:8080/Practical10/index.jsp'. The page content consists of two input fields labeled 'Enter Username' and 'Enter Password', followed by a 'Login' button.



This screenshot shows the same login form as above, but with the username field containing the text 'Shivam' and the password field containing the text '123'. The 'Login' button remains visible.



The screenshot shows the browser window after a successful login. The address bar now displays 'http://localhost:8080/Servlets/refresh?username=surya&password=123'. The page content shows the heading 'Practical10', the address 'Dehradun', and an auto-refresh message with the current time '7:13:20 PM'.

Heading: Practical10
Address: Dehradun

Auto Refresh Page
Current time: 7:13:20 PM