

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>

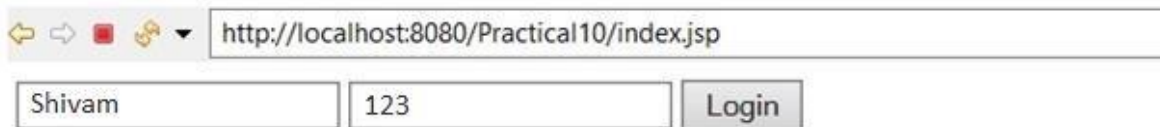
    </servlet-mapping>

</web-app>
```

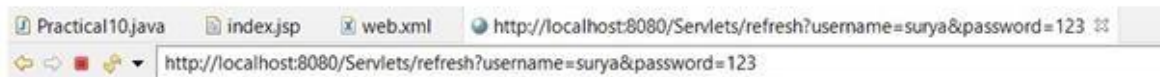
OUTPUT



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 three input fields: 'Enter Username', 'Enter Password', and a 'Login' button.



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



The screenshot shows the browser's developer console with two tabs: 'Practical10.java' and 'index.jsp'. The console output displays the URL 'http://localhost:8080/Servlets/refresh?username=surya&password=123'.

Heading: Practical10
Address: Dehradun

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