

SERVLETS AND JSP COURSE

EXERCISE

SCRIPTLETS WITH JSP

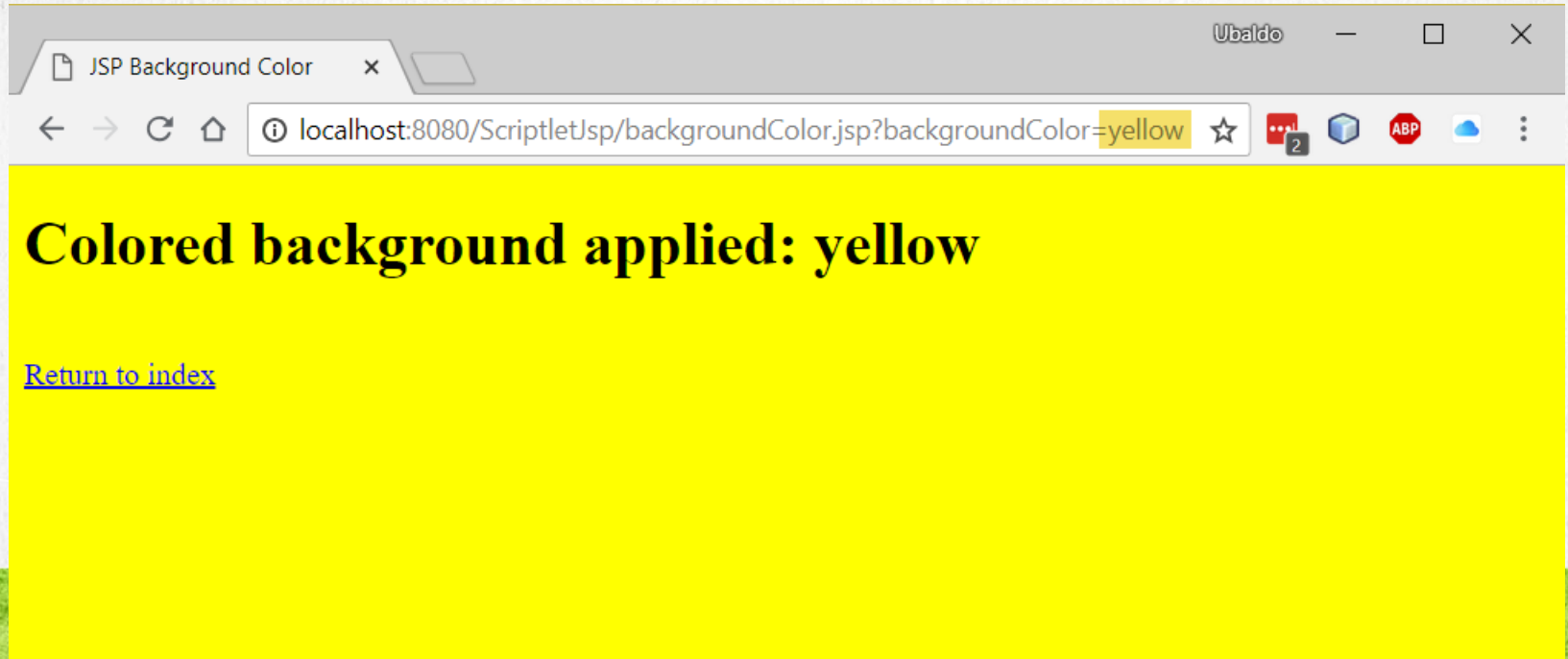


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EXERCISE OBJECTIVE

Create a program for the basic management of Scriptlets in a JSP. At the end we should observe the following:



1. CREATE A NEW PROJECT

Create a new Project:

New Web Application [X]

Steps

1. Choose Project
- 2. Name and Location**
3. Settings

Name and Location

Project Name:

Project Location:

Project Folder:

Artifact Id:

Group Id:

Version:

Package: (Optional)

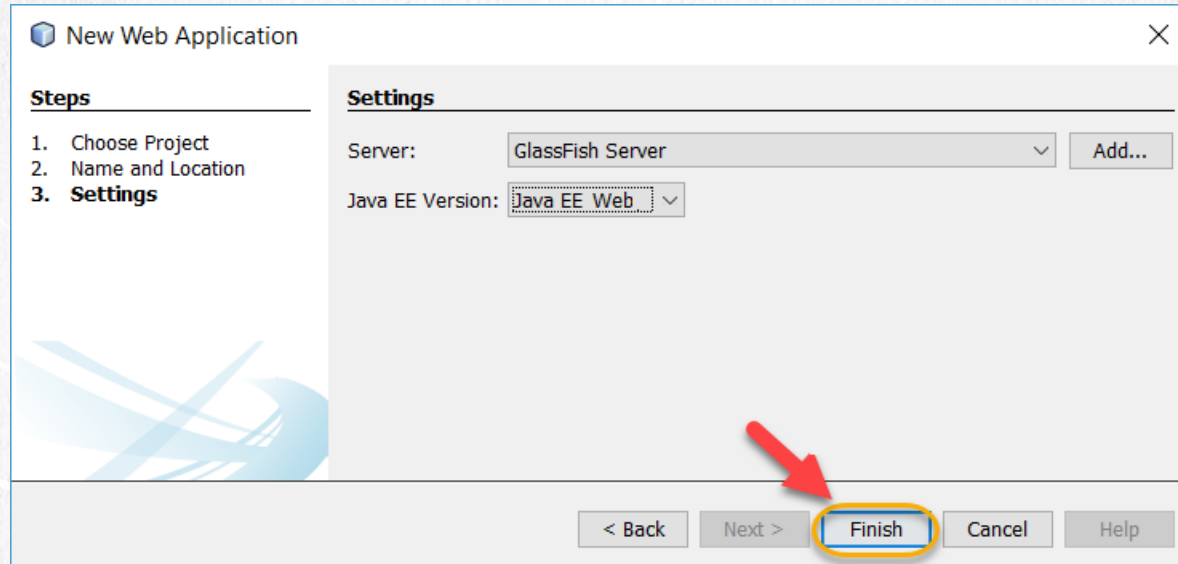
< Back **Next >** Finish Cancel Help

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1. CREATE A NEW PROJECT

Create a new Project:



New Web Application [X]

Steps

1. Choose Project
2. Name and Location
3. **Settings**

Settings

Server: GlassFish Server [v] [Add...]

Java EE Version: Java EE Web [v]

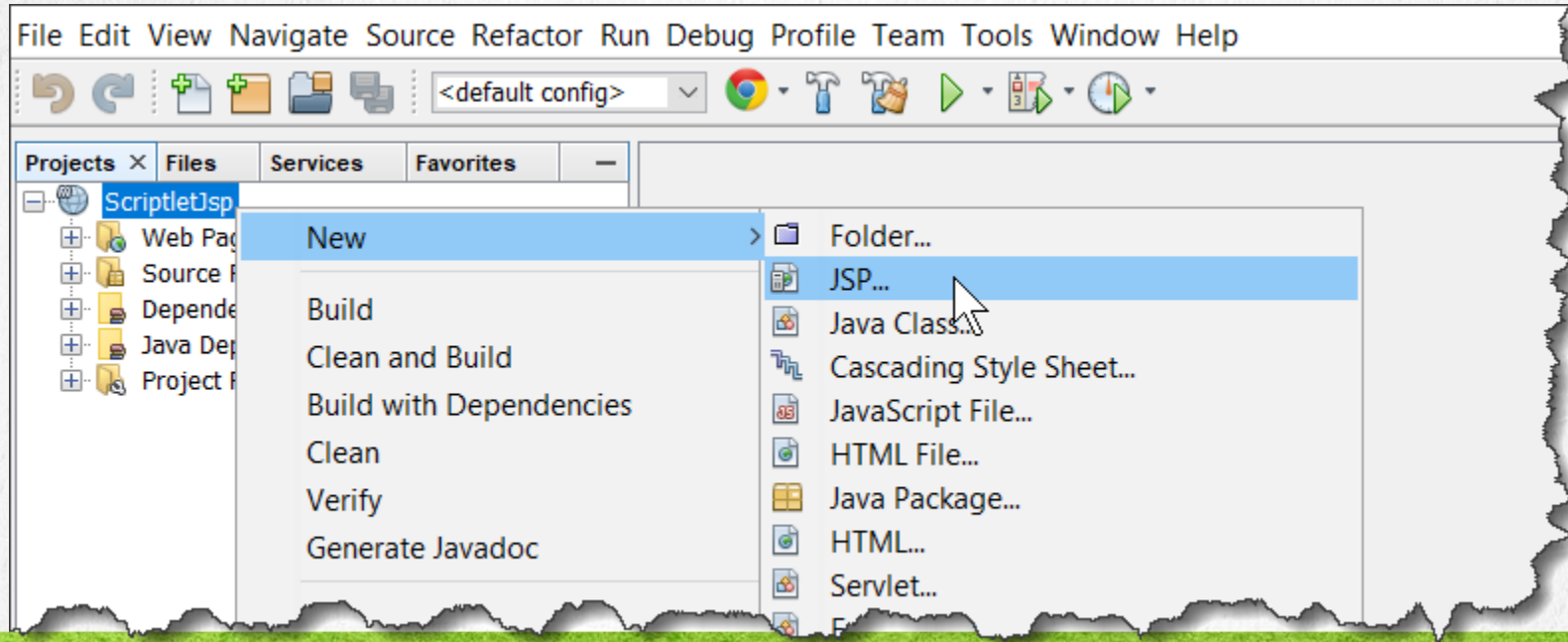
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2. CREATE A NEW JSP

Create a new JSP:



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2. CREATE A NEW JSP (CONT)

Create a new JSP:

New JSP

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

File Name:

Project:

Location:

Folder:

Created File:

Options:

☒ JSP File (Standard Syntax) ☐ Create as a JSP Segment

☐ JSP Document (XML Syntax)

Description:

A JSP file using JSP standard syntax.

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3. MODIFY THE CODE

[backgroundColor.jsp:](#)

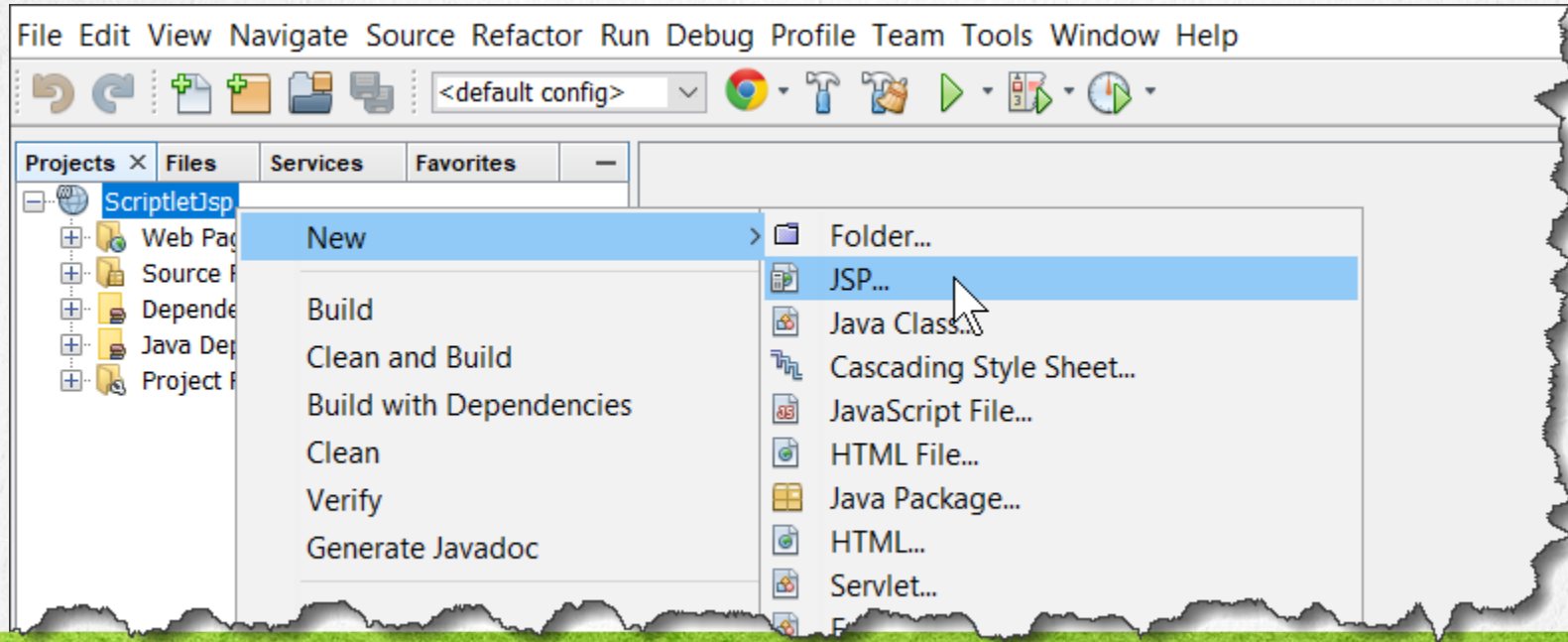
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```
<!DOCTYPE html>
<% //Scriptlet
    String background = request.getParameter("backgroundColor");
    //Si no se envia un color, ponemos un color por default
    if (background == null || background.trim().equals("")) {
        background = "white";
    }
%>

<html>
    <head>
        <title>JSP Background Color</title>
        <meta charset="UTF-8">
    </head>
    <body bgcolor="<%=background%>">
        <h1>Colored background applied: <%= background%></h1>
        <br>
        <a href="index.html">Return to index</a>
    </body>
</html>
```


4. CREATE A NEW JSP

Create a new JSP:

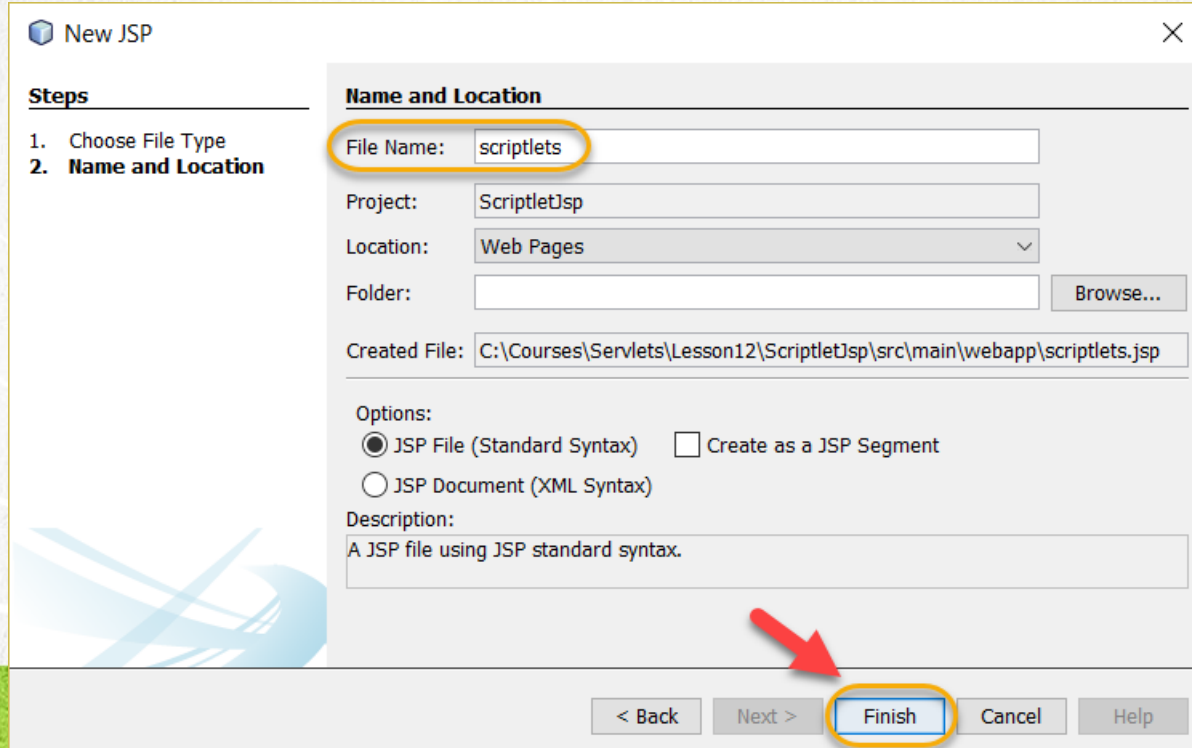


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4. CREATE A NEW JSP(CONT)

Create a new JSP:



New JSP

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

File Name:

Project:

Location:

Folder:

Created File:

Options:

☒ JSP File (Standard Syntax) ☐ Create as a JSP Segment

☐ JSP Document (XML Syntax)

Description:

PASO 5. MODIFICAMOS EL CÓDIGO

[scriptlets.jsp](#)

[Click to download](#)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Scriptlets with JSP</title>
    <meta charset="UTF-8">
  </head>
  <body>
    <h1>Scriptlets with JSP</h1>
    <br>
    <!--Scriptlet to send information to the browser-->
    <%
      out.println("Greetings from a scriptlet");
    %>
    <br>
    <!-- Scriptlet to manipulate the implicit objects -->
    <%
      String applicationName = request.getContextPath();
      out.println("applicationName: " + applicationName);
    %>
```

PASO 5. MODIFICAMOS EL CÓDIGO

[scriptlets.jsp:](#)

[Click to download](#)

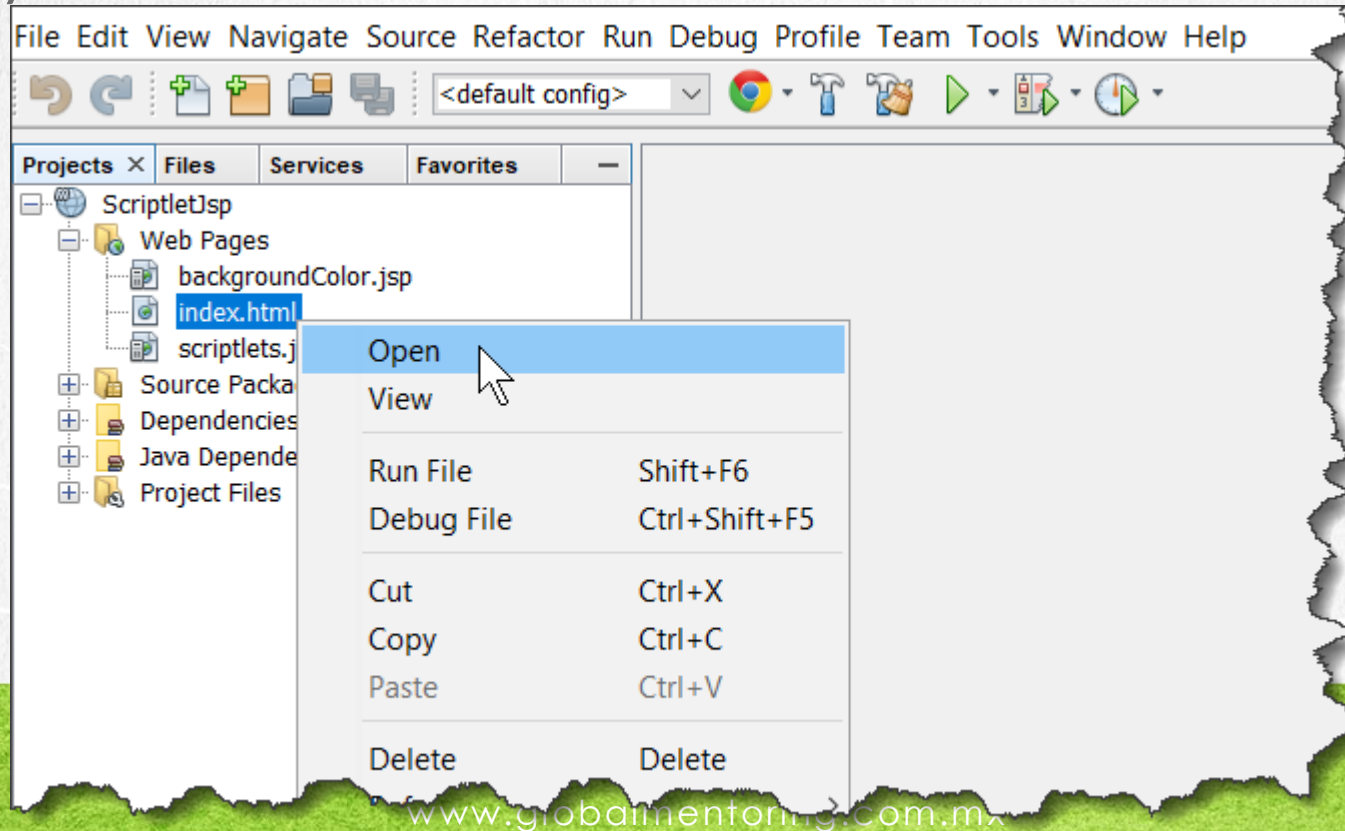
```
<br>
<!-- Scriptlet with conditioned code -->
<%
    if (session != null && session.isNew()) {
        %>
        the session is new
        <%
    } else if (session != null) {
        %>
        the session is NOT new
        <%
    }
    %>
</body>
</html>
```

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6. MODIFY THE FILE

Modify the index.html file:



6. MODIFY THE FILE

[index.html:](#)

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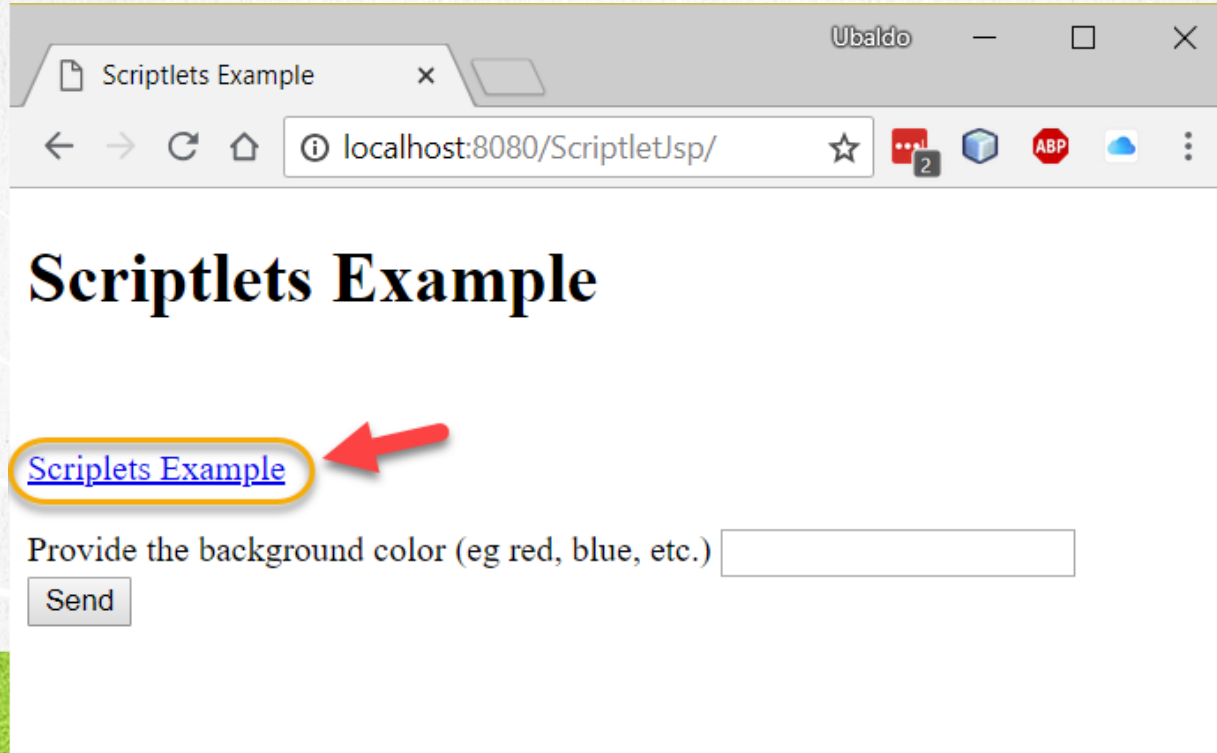
```
<!DOCTYPE html>
<html>
  <head>
    <title>Scriptlets Example</title>
    <meta charset="UTF-8">
  </head>
  <body>
    <h1>Scriptlets Example</h1>
    <br>
    <br>
    <a href="scriptlets.jsp">Scriptlets Example</a>
    <br>
    <br>
    <form action="backgroundColor.jsp">
      Provide the background color (eg red, blue, etc.)
      <input type="text" name="backgroundColor">
      <br>
      <input type="submit" value="Send">
    </form>
  </body>
</html>
```

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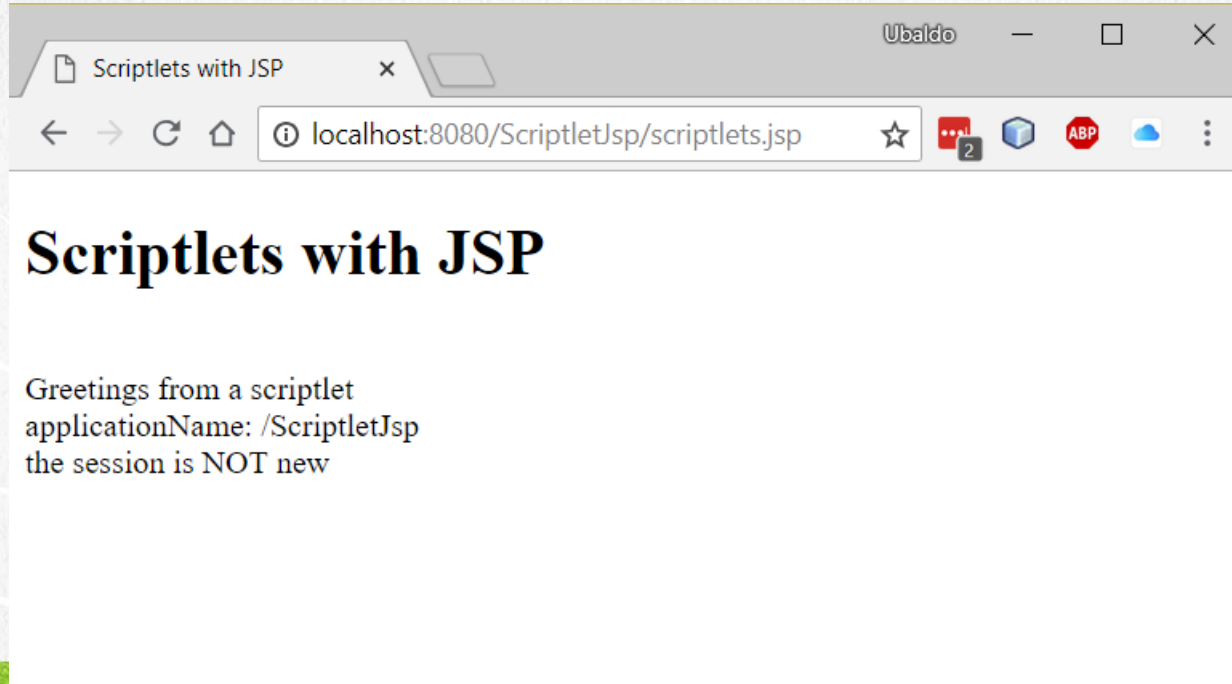
7. EXECUTE THE PROJECT

The result is as follows:



7. EXECUTE THE PROJECT (CONT)

The result is as follows:

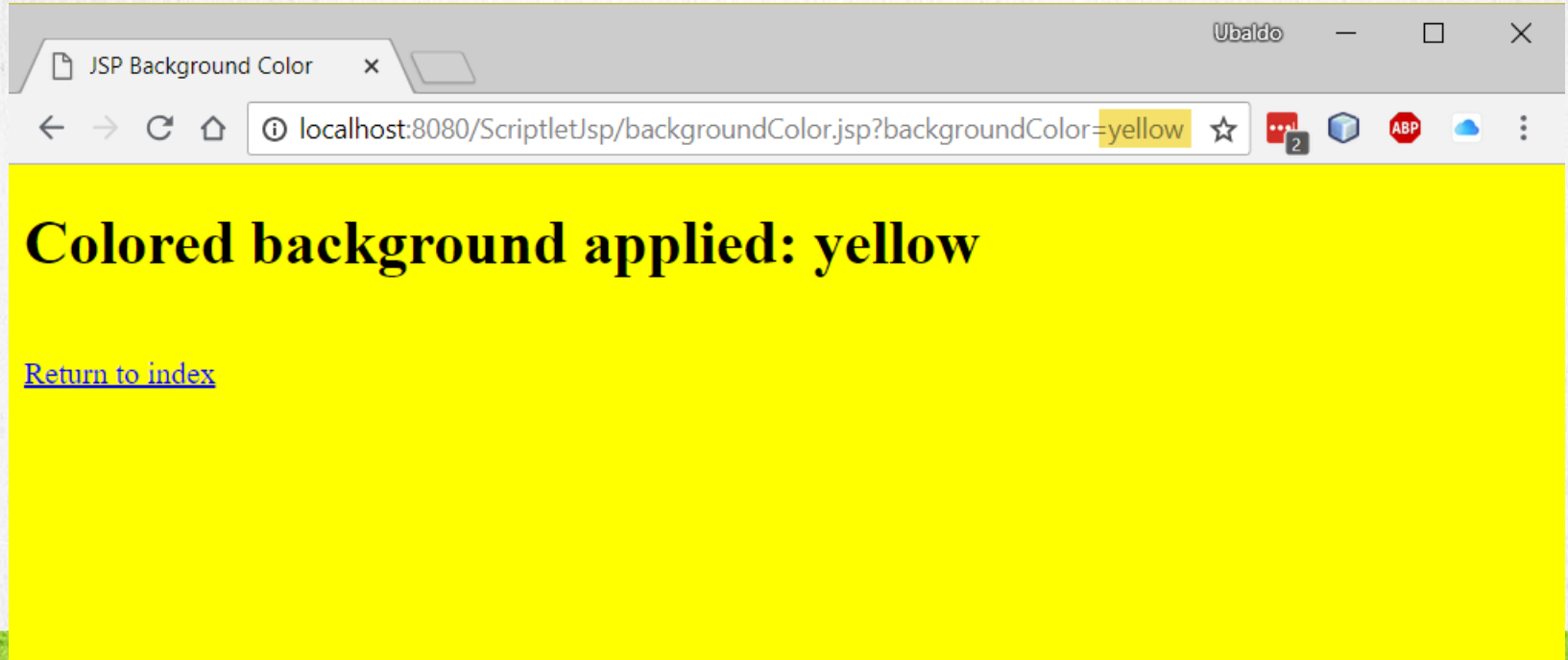


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7. EXECUTE THE PROJECT(CONT)

The result is as follows:



EXERCISE CONCLUSION

- With this exercise we have put into practice the concept of Scriptlets using JSPs.
- With this we could observe how we can add Java code to our JSPs with the help of the Scriptlets. However, we must use this feature with great caution since we can quickly end up on JSP pages that are not very maintainable and difficult to understand and prove.
- However, as we go forward we will study the best practices in the use of Servlets and JSPs, including the use of Scriptlets.

ONLINE COURSE

SERVLETS & JSP' S

By: Eng. Ubaldo Acosta



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