

# SERVLETS AND JSP COURSE

## EXERCISE

### EXCEL AND JSP' S



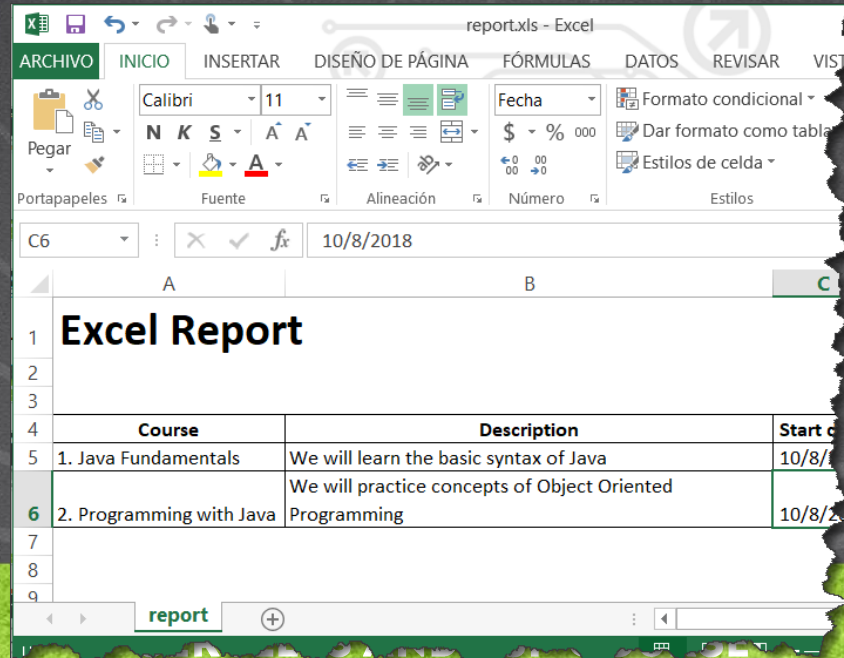
Experiencia y Conocimiento para tu vida

**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

# EXERCISE OBJECTIVE

Create a program to practice the directives of JSPs. At the end we should observe the following:



The screenshot shows the Microsoft Excel interface with the file 'report.xls'. The ribbon includes 'ARCHIVO', 'INICIO', 'INSERTAR', 'DISEÑO DE PÁGINA', 'FÓRMULAS', 'DATOS', 'REVISAR', and 'VISTAS'. The 'INICIO' ribbon is active, showing options for 'Pegar', 'Fuente' (Font), 'Alineación' (Alignment), 'Número' (Number), and 'Estilos' (Styles). The formula bar shows 'C6' and the date '10/8/2018'. The worksheet contains the following table:

	A	B	C
1	<b>Excel Report</b>		
2			
3			
4	<b>Course</b>	<b>Description</b>	<b>Start date</b>
5	1. Java Fundamentals	We will learn the basic syntax of Java	10/8/2018
6	2. Programming with Java	We will practice concepts of Object Oriented Programming	10/8/2018
7			
8			
9			

The bottom of the window shows the 'report' sheet tab and a scroll bar.



# 1. CREATE A NEW PROJECT

Create a new web Project using Maven:

**New Web Application**

**Steps**

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

**Name and Location**

Project Name: ExcelAndJsp

Project Location: C:\Courses\Servlets\Lesson13 Browse...

Project Folder: C:\Courses\Servlets\Lesson13\ExcelAndJsp

Artifact Id: ExcelAndJsp

Group Id: web

Version: 1

Package: (Optional)

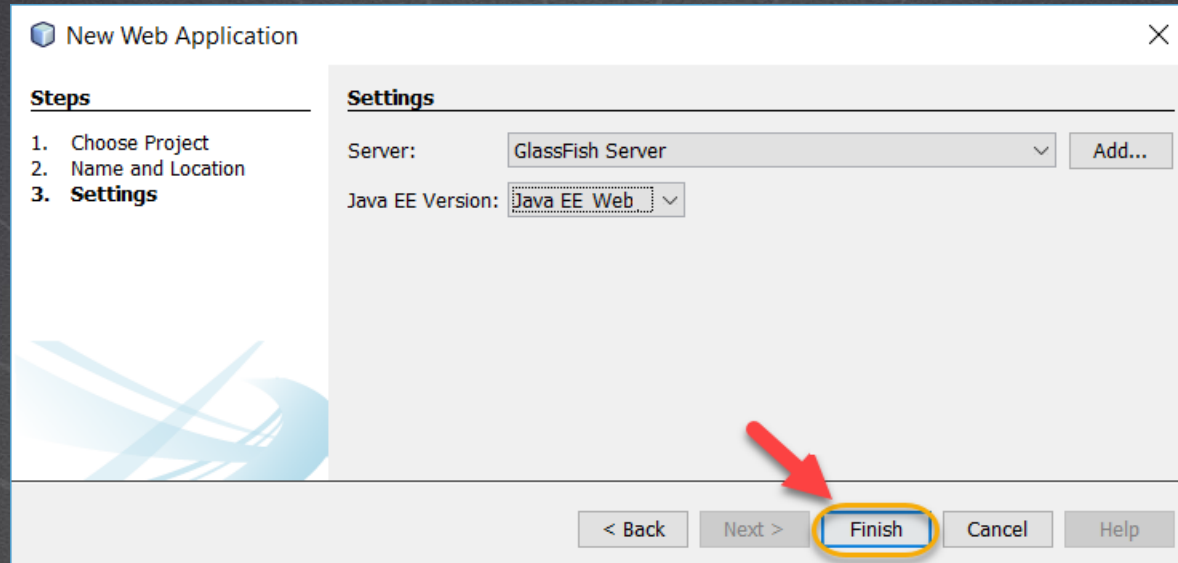
< Back **Next >** Finish Cancel Help

**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

# PASO 1. CREACIÓN DEL PROYECTO

Vamos a crear el proyecto:

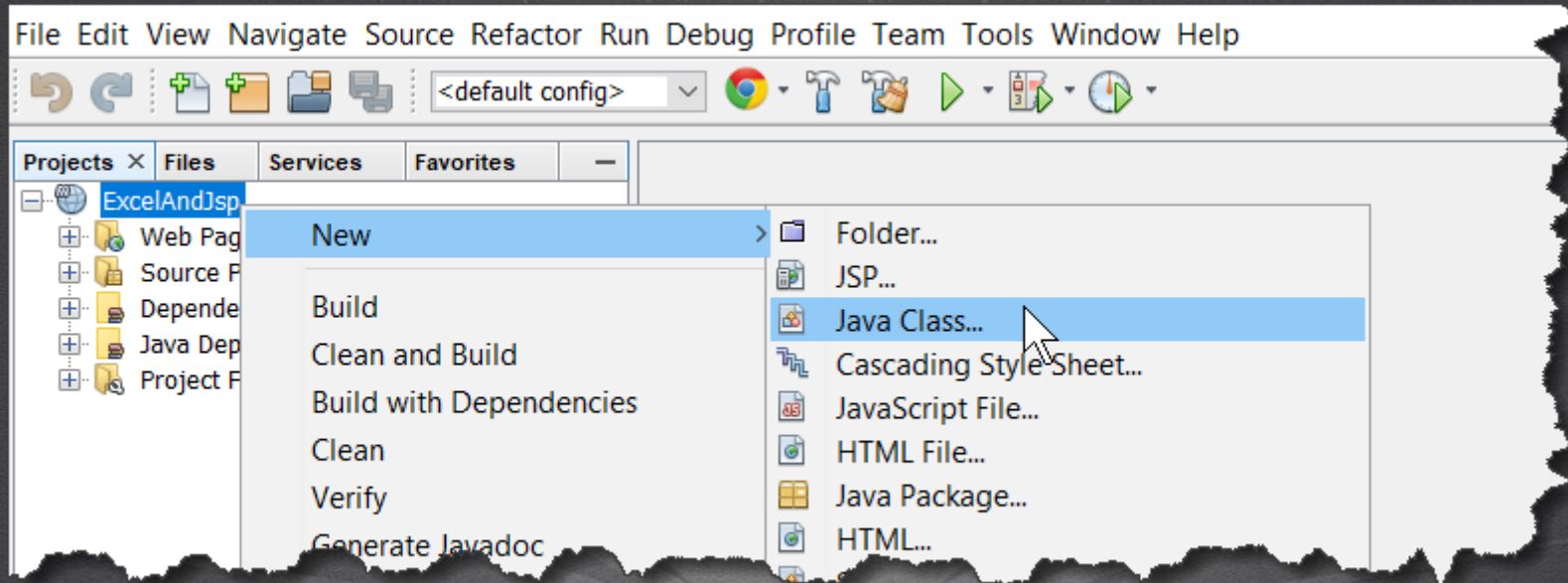


**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

## 2. CREATE A JAVA CLASS

Create a new class called Conversions.java:



**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)



## 2. CREATE A NEW CLASS(CONT)

Create a new Java class called Conversions.java:

**New Java Class**

**Steps**

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

**Name and Location**

Class Name:

Project:

Location:

Package:

Created File:

< Back   Next >   **Finish**   Cancel   Help

**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

### 3. MODIFY THE FILE

#### Conversions.java:

[Click to download](#)

```
package utility;

import java.text.SimpleDateFormat;
import java.util.Date;

/**
 *
 * @author Ubaldo
 */
public class Conversions {

    private static final String FORMAT_DATE = "dd-MM-yyyy";

    /**
     * Method to convert a date to a string
     * with the specified format
     * @param date
     * @return
     */
    public static String format(Date date){
        SimpleDateFormat formatter = new SimpleDateFormat(FORMAT_DATE);
        return formatter.format( date );
    }
}
```

## 4. CREATE A NEW JSP

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:



## 4. MODIFY THE FILE

[excelReport.jsp:](#)

Click to download

```
<%@page import="utility.Conversions, java.util.Date" %>
<%@page contentType="application/vnd.ms-excel" %>
<%
    String fileName="report.xls";
    response.setHeader("Content-Disposition", "inline; filename=" + fileName );
%>
<html>
    <head>
        <title>Excel Report</title>
    </head>
    <body>
        <h1>Excel Report</h1>
        <br>
        <table border="1">
            <tr>
                <th>Course</th>
                <th>Description</th>
                <th>Start date</th>
            </tr>
            <tr>
                <td>1. Java Fundamentals</td>
                <td>We will learn the basic syntax of Java</td>
                <td><%= Conversions.format ( new Date() ) %></td>
            </tr>
```

## 4. MODIFY THE FILE

[excelReport.jsp](#):

Click to download

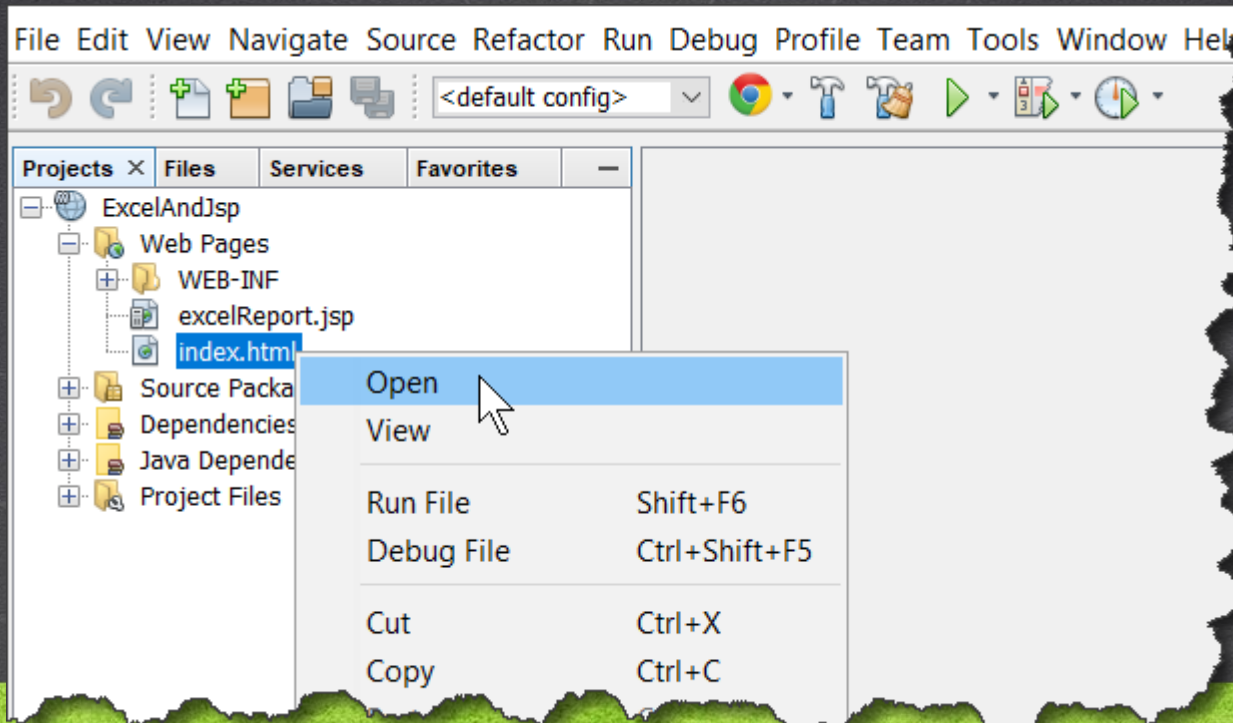
```
<tr>
  <td>2. Programming with Java</td>
  <td>We will practice concepts of Object Oriented Programming</td>
  <td><%= Conversions.format ( new Date () ) %></td>
</tr>
</table>
</body>
</html>
```

**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

## 5. MODIFY THE FILE

Modify the index.html file:



**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)



## 5. MODIFY THE CODE

[index.html](#):

Click to download

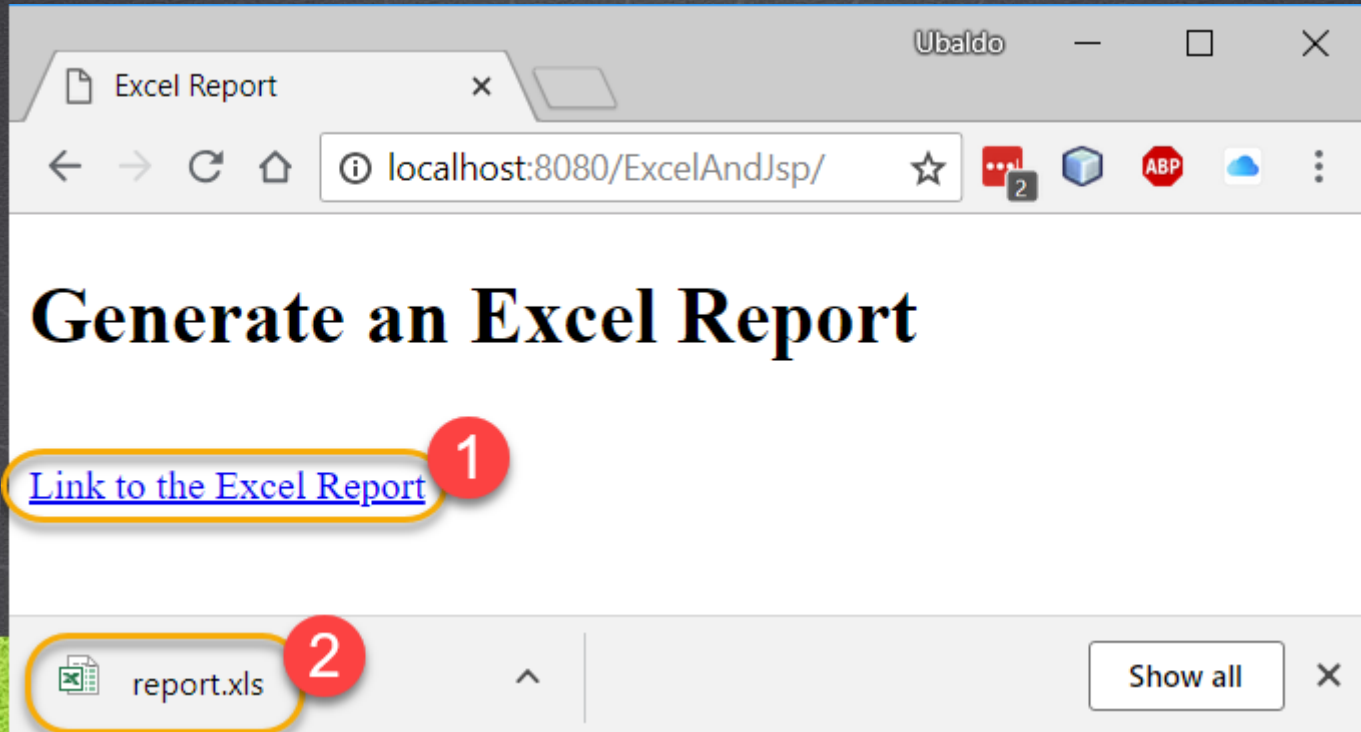
```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Excel Report</title>
  </head>
  <body>
    <h1>Generate an Excel Report</h1>
    <br>
    <a href="excelReport.jsp">Link to the Excel Report</a>
  </body>
</html>
```

**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

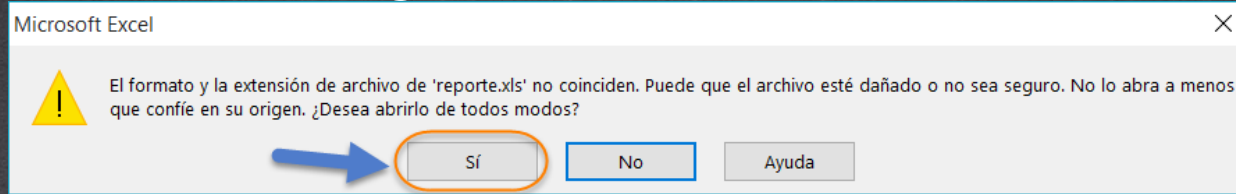
## 6. EXECUTE THE PROJECT

The result is as follows:



# PASO 7. EJECUTAMOS EL PROYECTO

El resultado es como sigue:



A screenshot of the Excel spreadsheet 'report.xls'. The spreadsheet has a title 'Excel Report' in cell C6. Below it, there is a table with 3 columns: 'Course', 'Description', and 'Start date'. The table contains two rows of data. The first row is for '1. Java Fundamentals' and the second row is for '2. Programming with Java'. The 'Start date' column shows dates '10/8/2018' and '10/8/2018' respectively. The spreadsheet is displayed in a window titled 'report.xls - Excel' with the 'ARCHIVO' tab selected.

	Course	Description	Start date
1	1. Java Fundamentals	We will learn the basic syntax of Java	10/8/2018
2	2. Programming with Java	We will practice concepts of Object Oriented Programming	10/8/2018



# EXERCISE CONCLUSION

- With this exercise we have put into practice the concept of directives using JSPs.
- This is a very simple way, but it exemplifies very well what we can do with the use of directives in JSPs. Let's continue with another exercise.



**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

**CURSO ONLINE**

# **SERVLETS & JSP' S**

Por: Ing. Ubaldo Acosta



Experiencia y Conocimiento para tu vida

**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)