

Lesson 01 Demo 02

JSP Tags

Objective: To explore various JSP tags within a web application using Eclipse IDE

Tools Required: Eclipse IDE

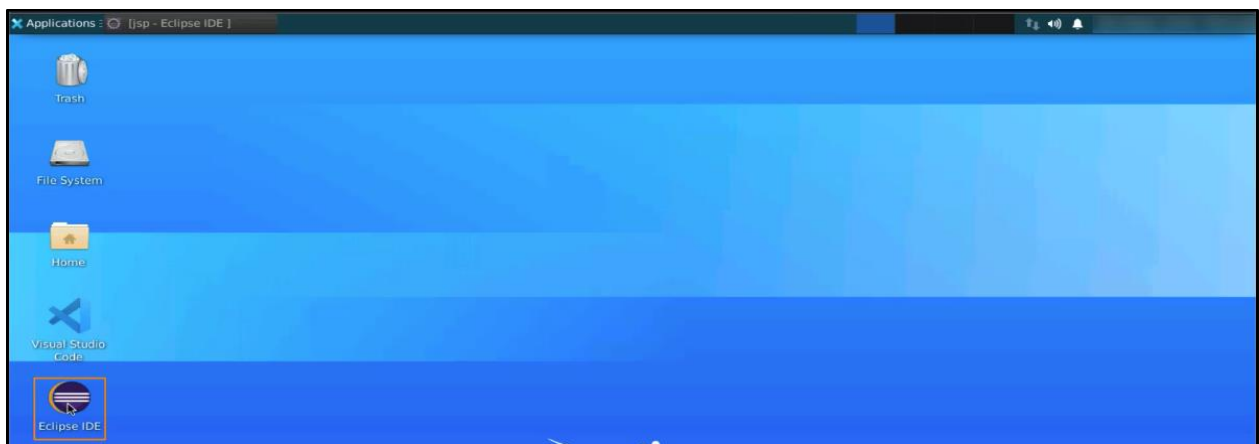
Prerequisites: None

Steps to be followed:

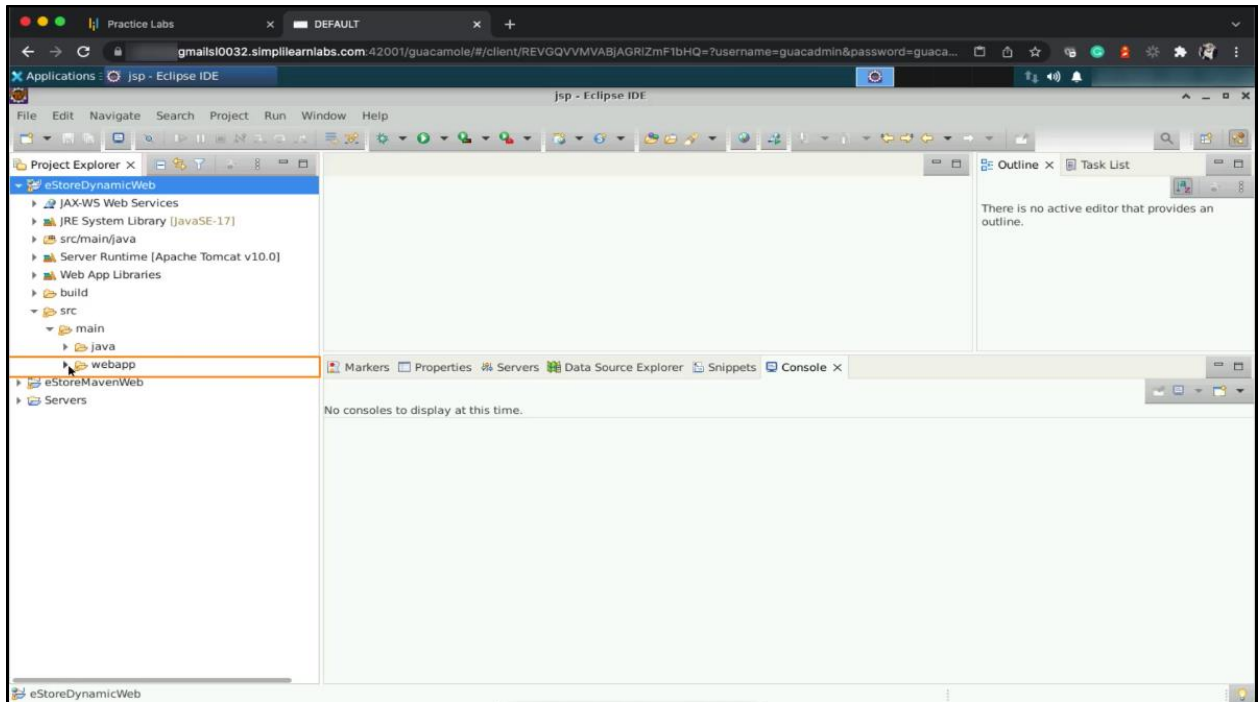
1. Create a new JSP file
2. Create an anchor tag to link tags.jsp file
3. Create a declarative tag
4. Copy the tags.jsp file to eStoreMavenWeb project

Step 1: Create a new JSP file

1.1 Open the Eclipse IDE in your lab



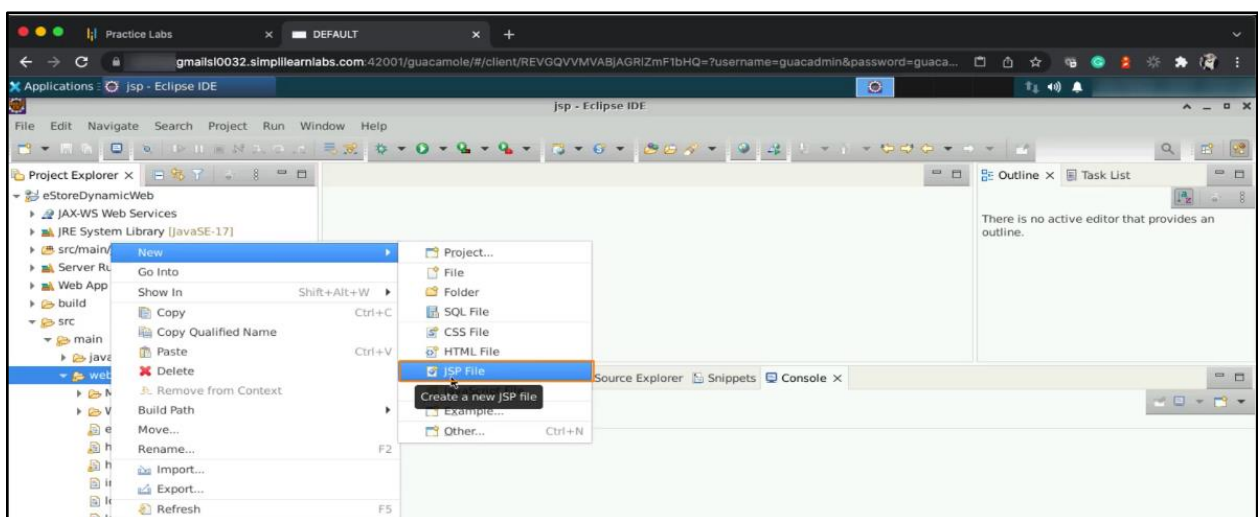
1.2 In the **eStoreDynamicWeb** project, navigate to the **webapp** folder



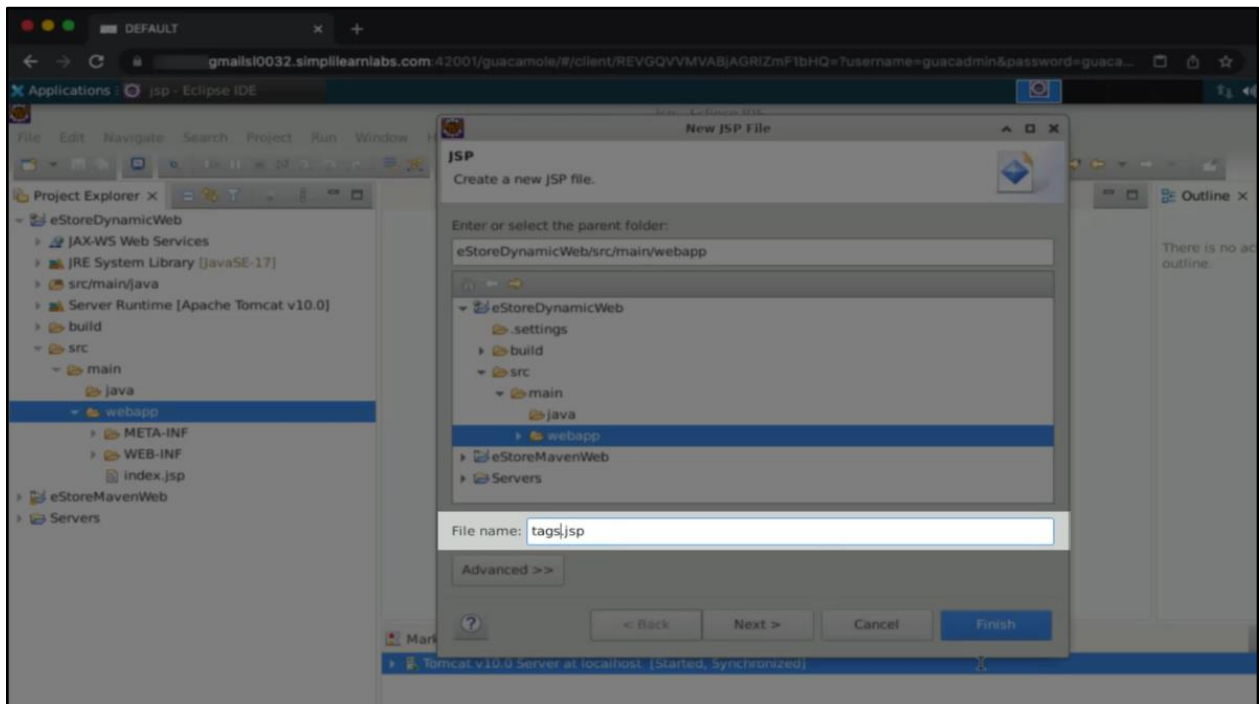
Note: Please refer to the previous demo on how to create the **eStoreDynamicWeb** project

1.3 Follow the path below to create a new JSP file:

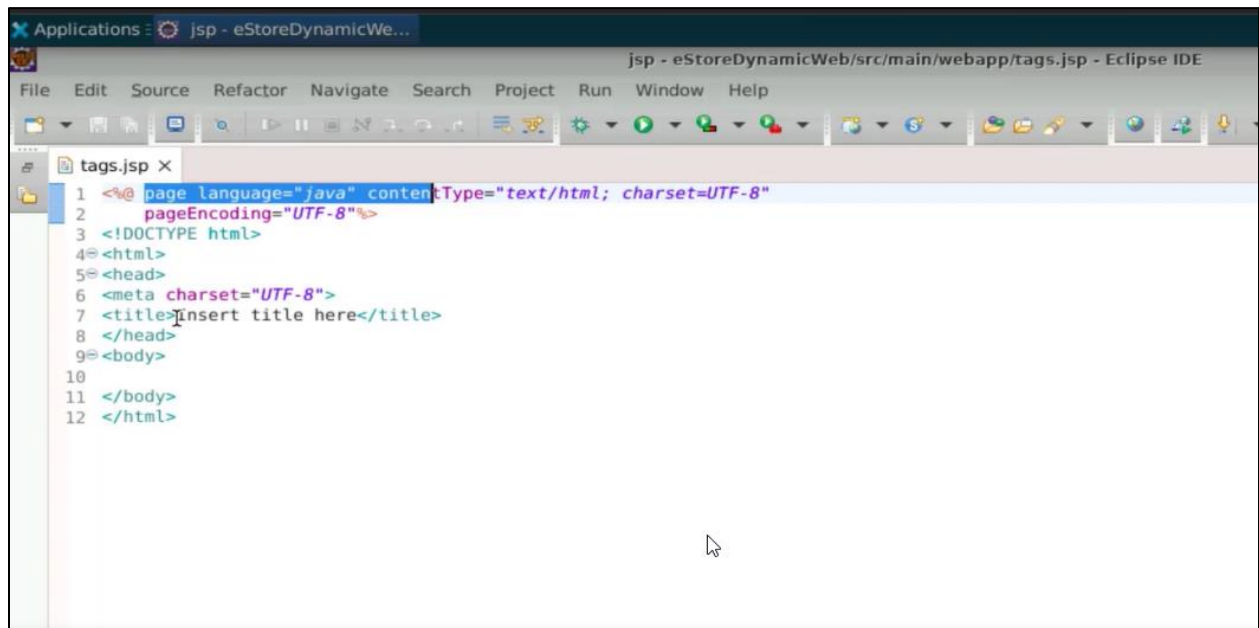
New->JSP File



1.4 Name the JSP file as **tags.jsp** and click **Finish**



This is how the page will look:



Step 2: Create an anchor tag to link tags.jsp file

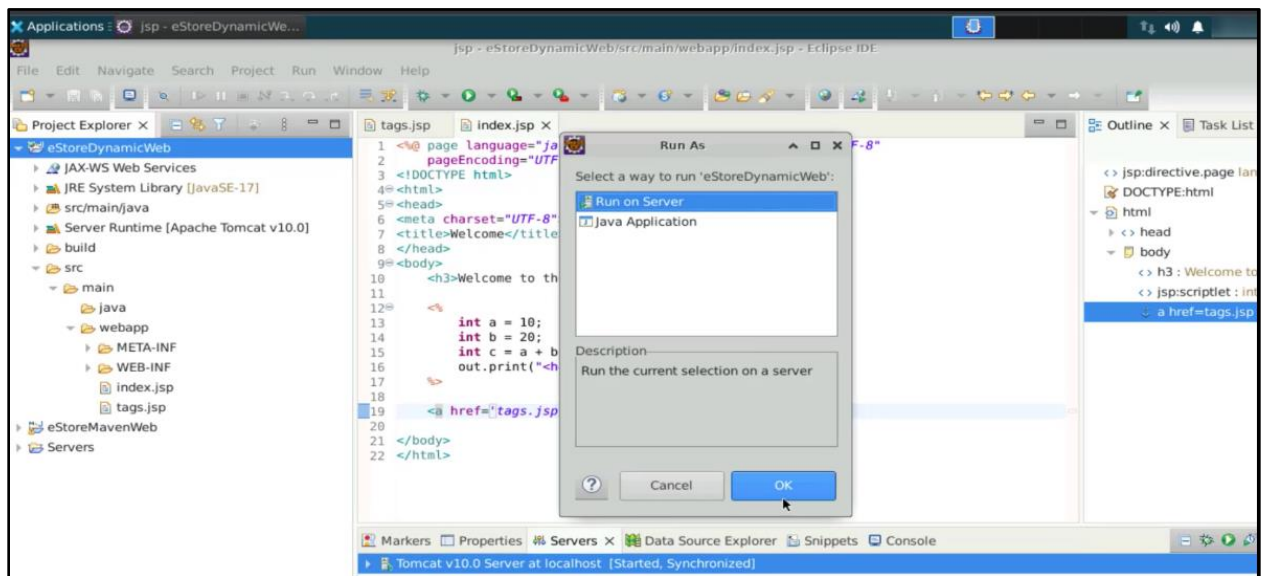
2.1 Add an **h3** tag and code to print the name and multiple of two numbers

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8">
7 <title>JSP Tags</title>
8 </head>
9 <body>
10
11
12
13 <h3>Scriptlet Tag</h3>
14
15     int x = 10;
16     int y = 20;
17     int z = x * y;
18
19     String name = "Fionna";
20     out.print("z is: "+z);
21     out.print("Name is: "+name);
22
23
24 </body>
25 </html>
```

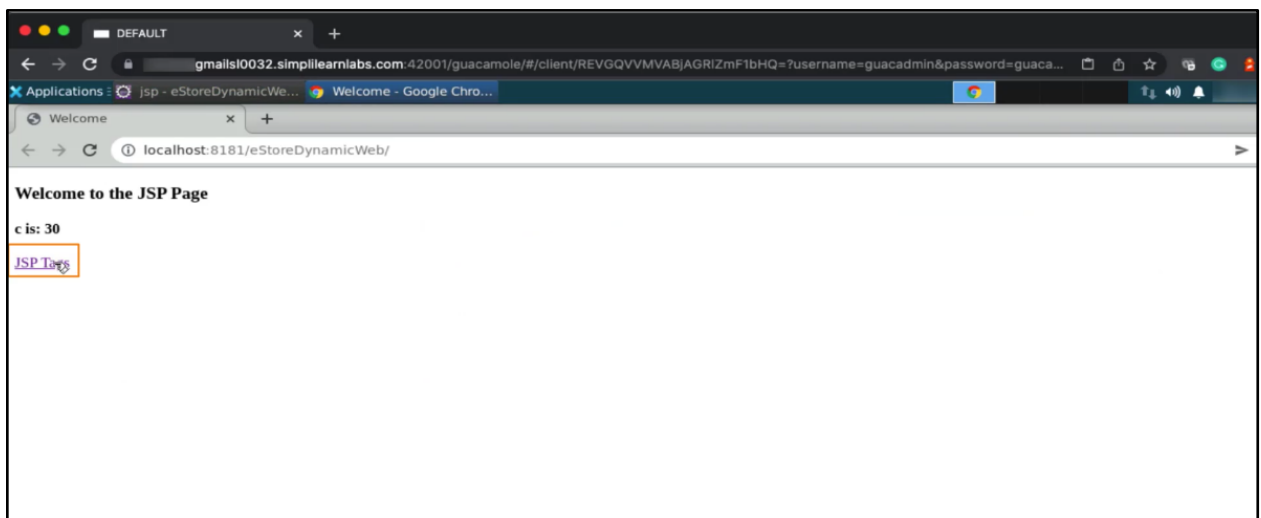
2.2 Now, go to the **index.jsp** file and create an anchor tag and link it to the **tags.jsp** file

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8">
7 <title>Welcome</title>
8 </head>
9 <body>
10 <h3>Welcome to the JSP Page</h3>
11
12
13     int a = 10;
14     int b = 20;
15     int c = a + b;
16     out.print("<h4>c is: "+c+"</h4>");
17
18
19 <a href='tags.jsp'>JSP Tags</a>
20
21 </body>
22 </html>
```

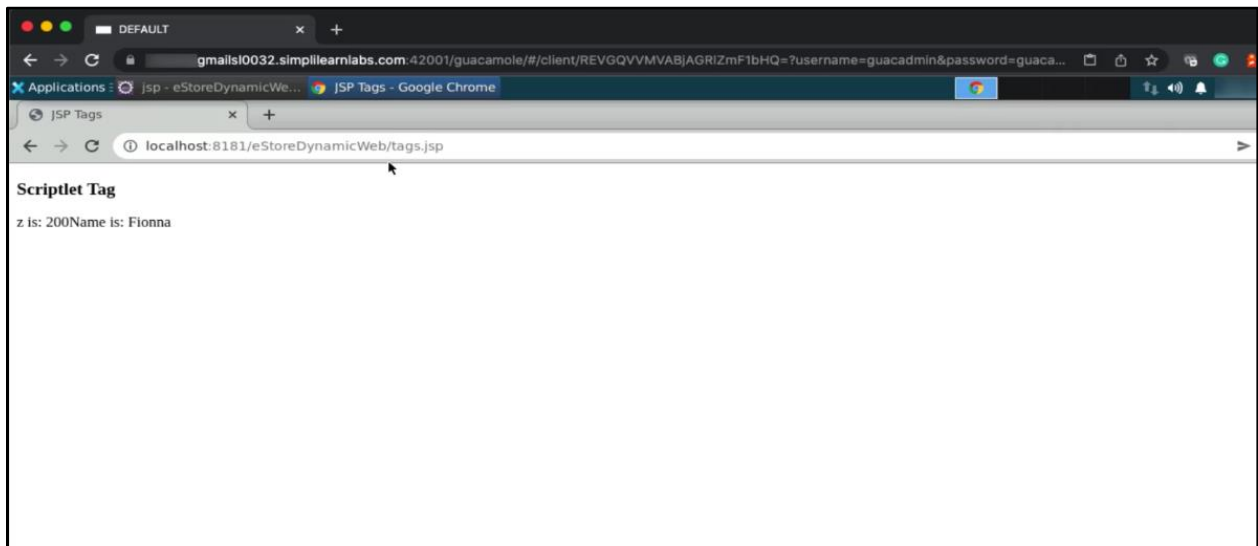
2.3 Select the project, then follow the path **Run As->Run on Server->Finish:**



You should get the below output:

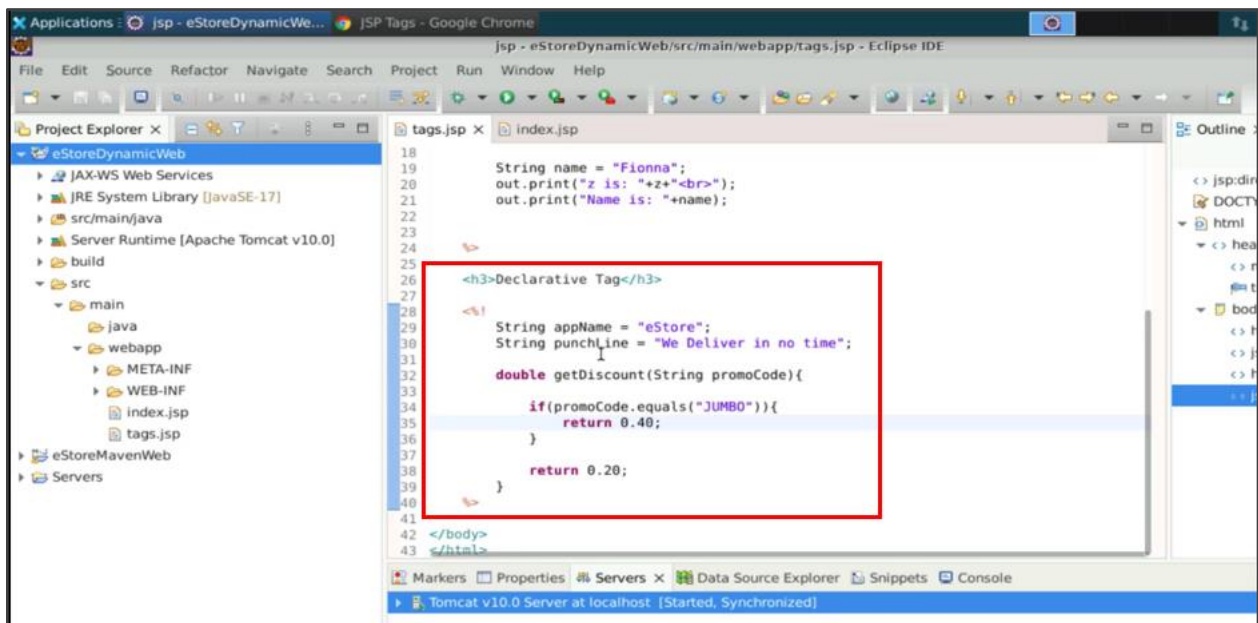


2.4 Click on the **JSP Tags** link and the following output can be seen:



Step 3: Create a declarative tag

3.1 Add a declarative tag in the **tags.jsp** file and write the necessary code logic to apply a 40% discount when the **JUMBO** promo code is applied



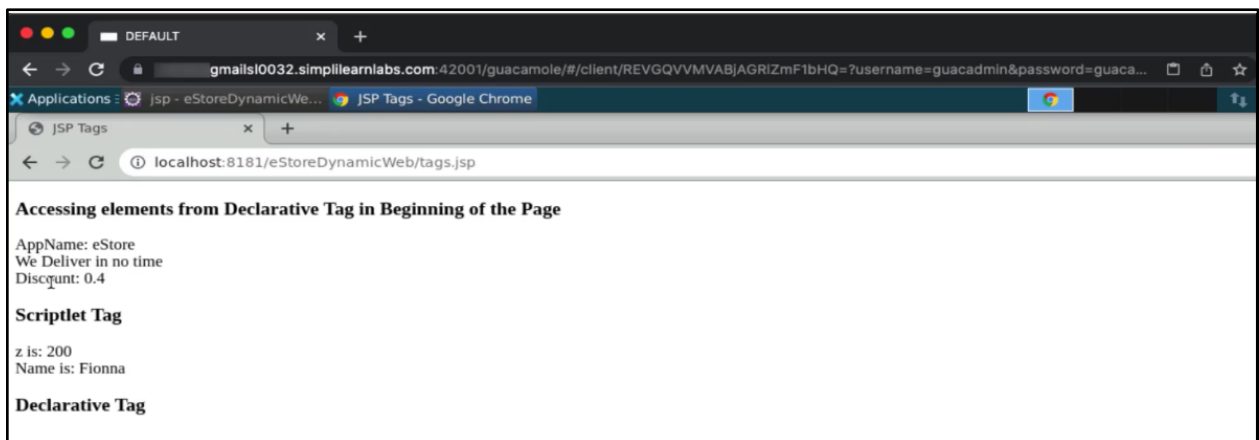
3.2 Write additional lines of code in **tags.jsp** file to display **AppName**, **Discount**, and **headers** between each section using an **h3** tag

```

1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8">
7 <title>JSP Tags</title>
8 </head>
9 <body>
10
11 <h3>Accessing elements from Declarative Tag in Beginning of the Page</h3>
12
13   out.print("AppName: "+appName+" <br>");
14   out.print(punchLine+" <br>");
15   out.print("Discount: "+getDiscount("JUMBO")+" <br>");
16
17 <h3>Scriptlet Tag</h3>
18
19
20   int x = 10;
21   int y = 20;
22   int z = x * y;
23
24   String name = "Fionna";
25   out.print("z is: "+z+"<br>");
26   out.print("Name is: "+name);

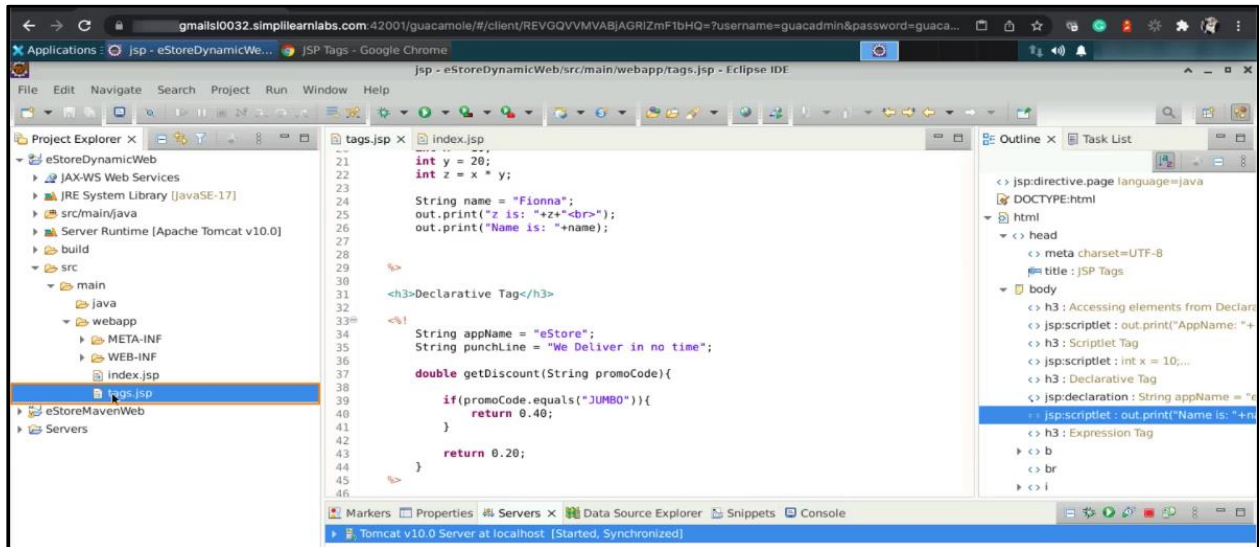
```

3.3 Refresh the browser and observe the output

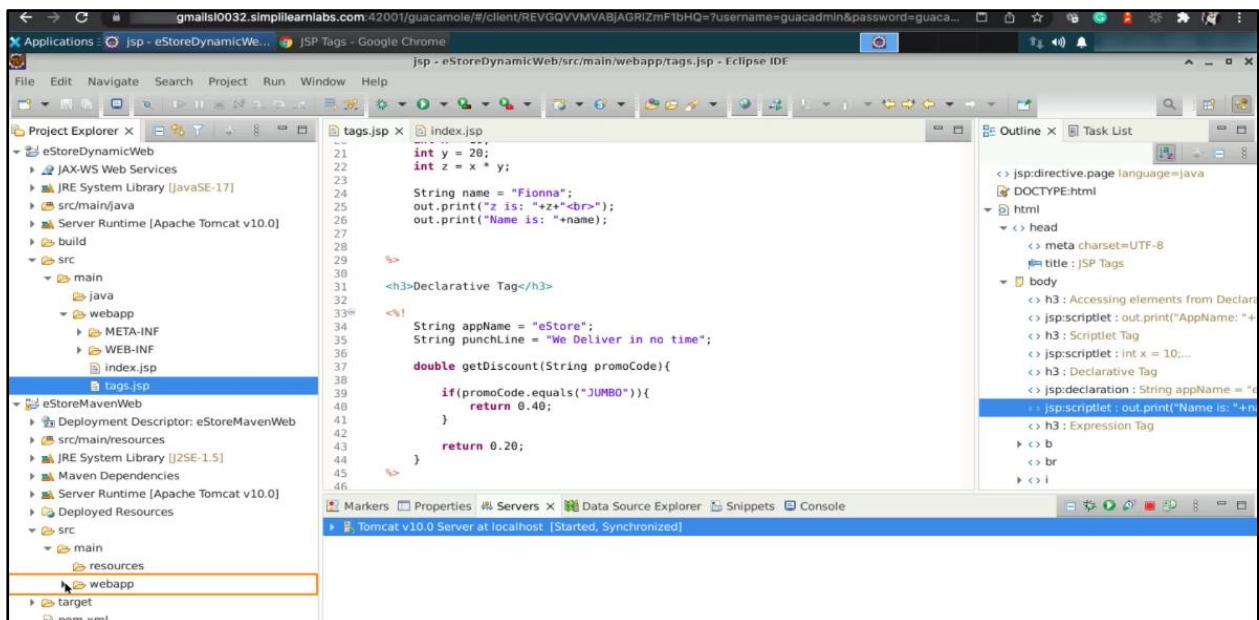


Step 4: Copy the tags.jsp file to eStoreMavenWeb project

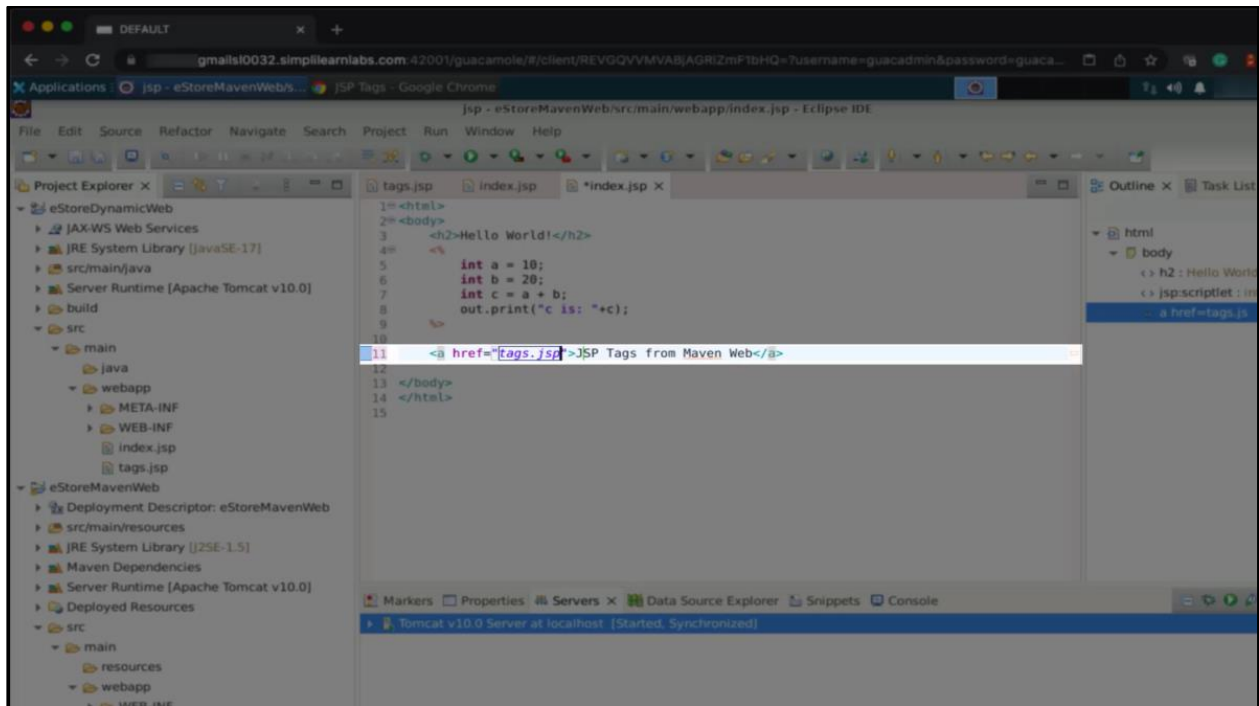
4.1 Copy the tags.jsp file and paste it in the webapp folder under the eStoreMavenWeb project



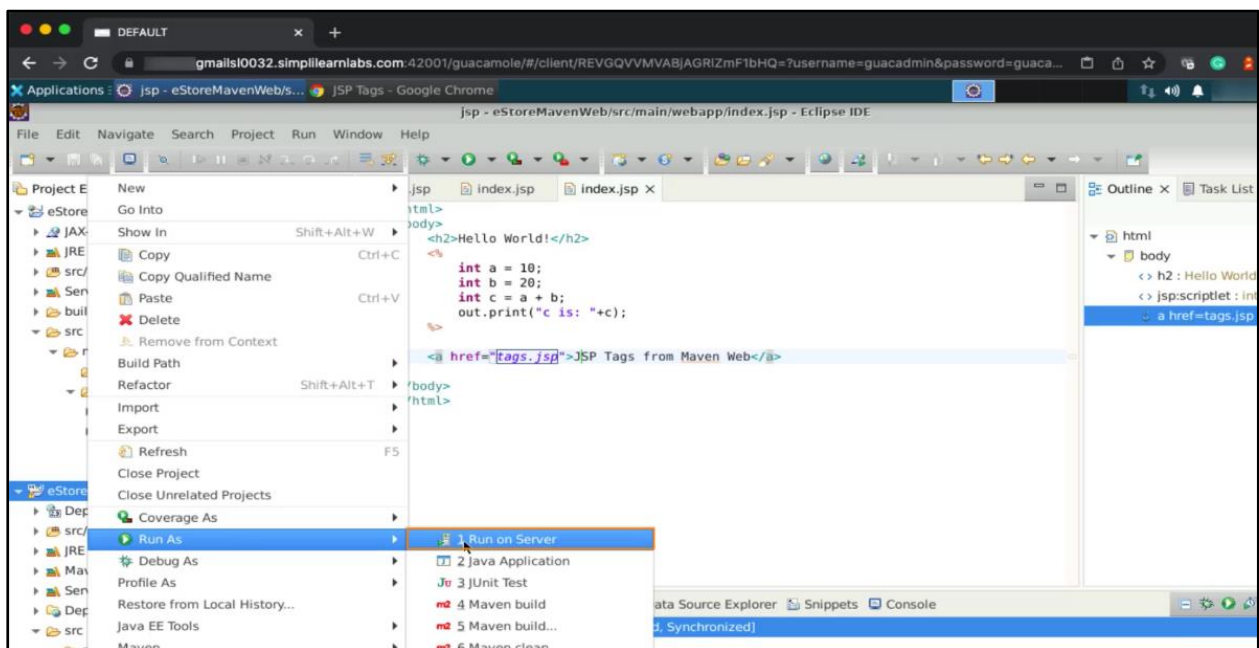
Note: Please refer to the previous demo on how to create the eStoreMavenWeb project



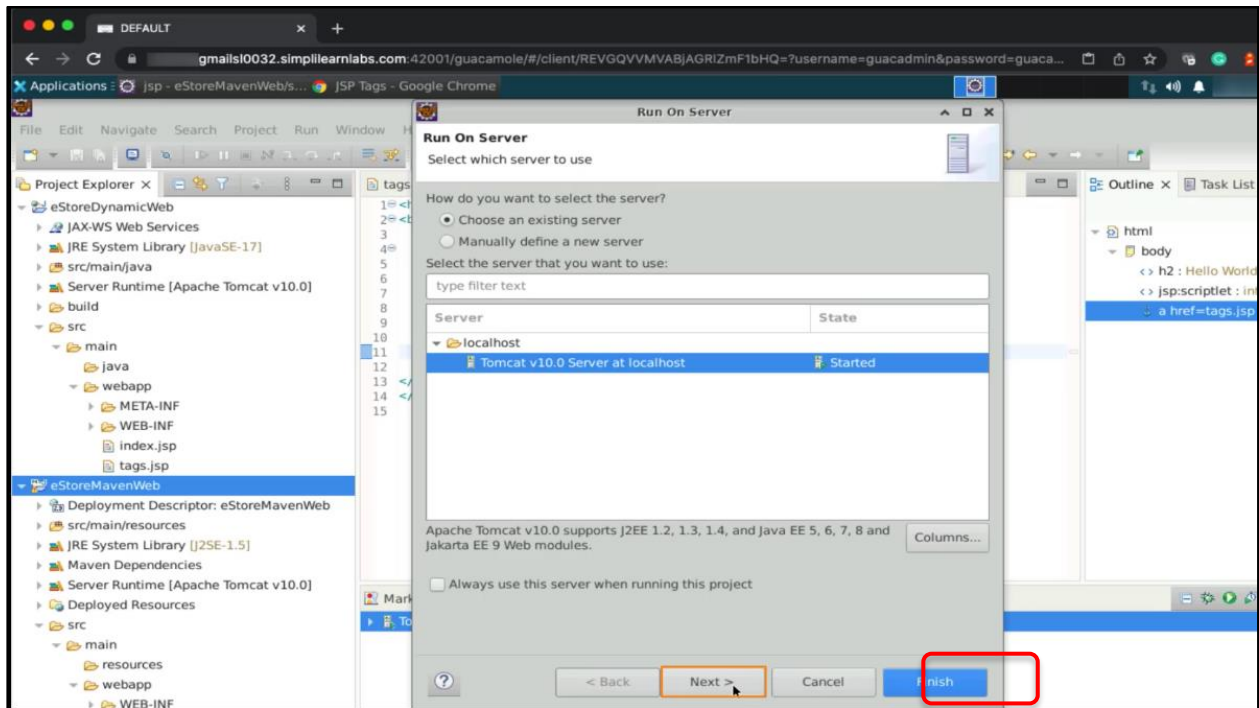
4.2 Open the **index.jsp** file, create an anchor tag, and link it to the **tags.jsp** file



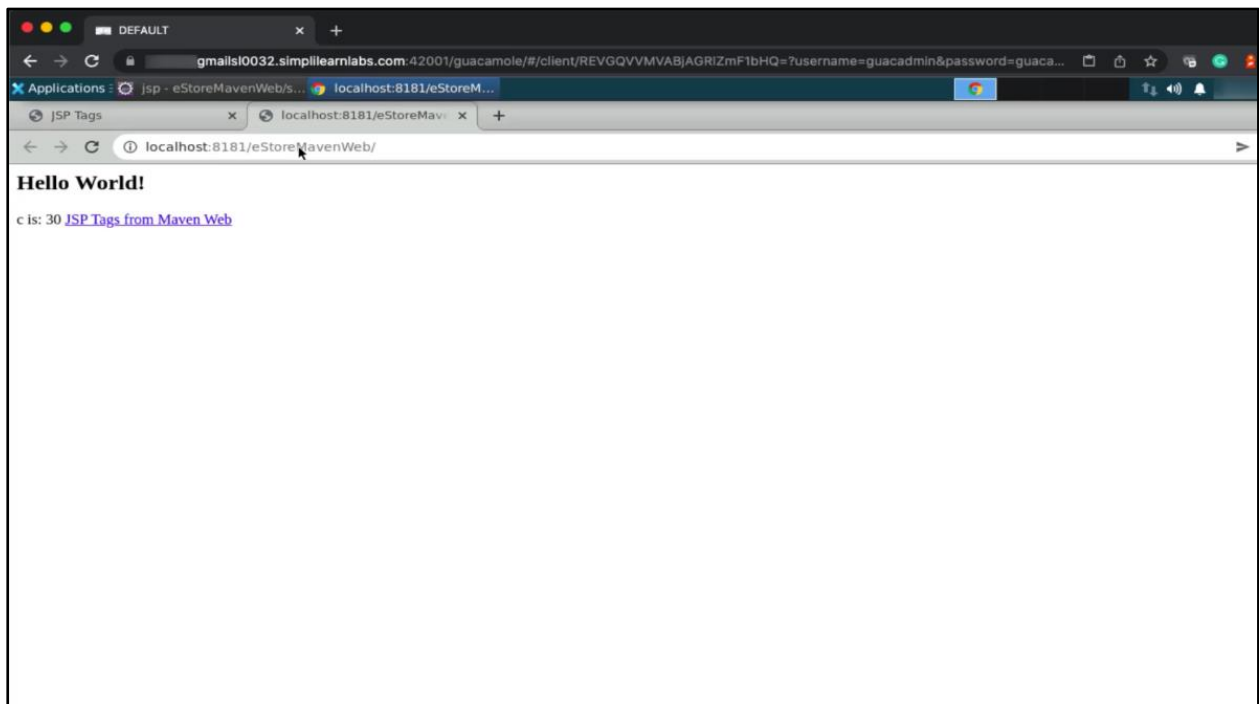
4.3 Right-click on the project then follow the path **Run As->Run on Server**



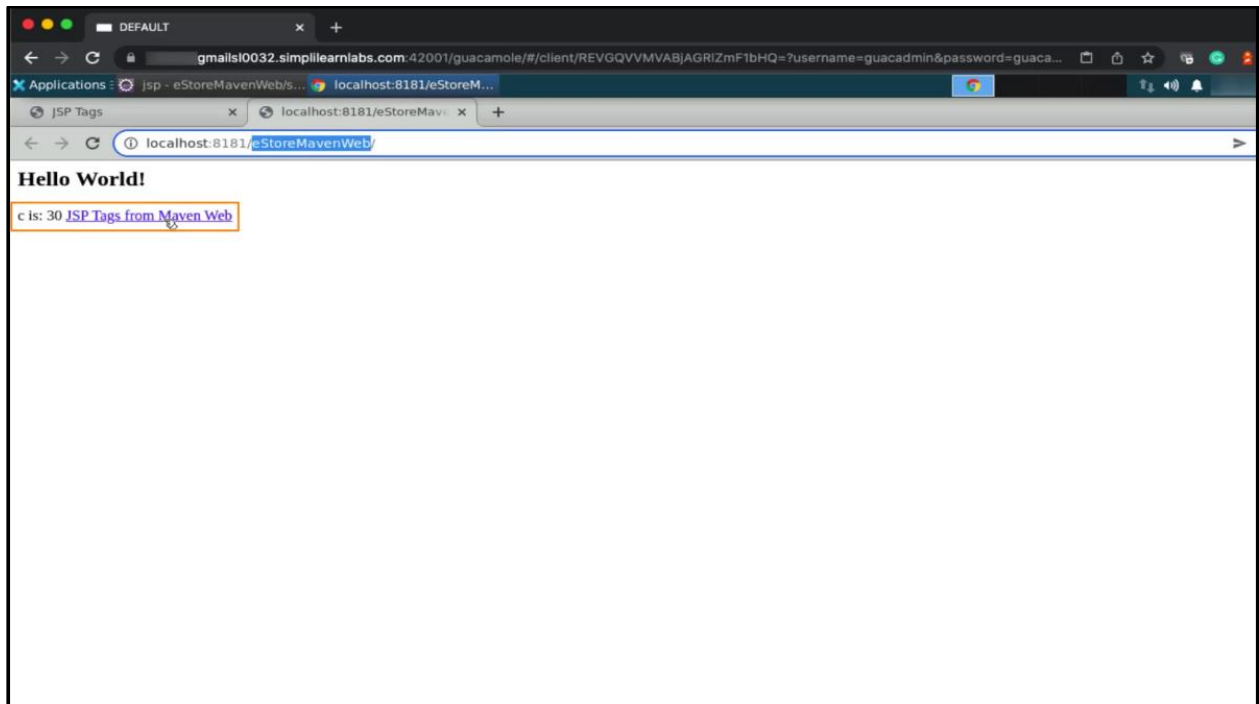
4.4 Select the Tomcat Server, click Next, and then click Finish



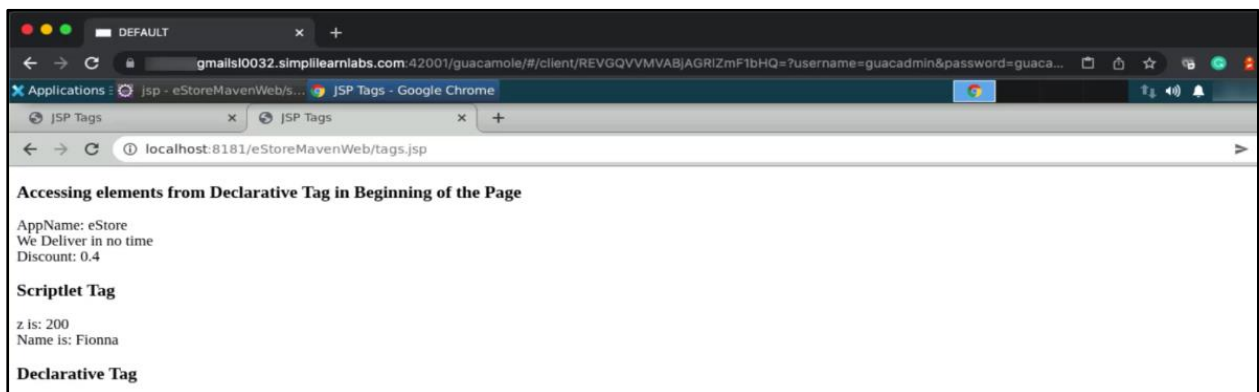
The following output can be seen:



4.5 Click on the **JSP Tags from Maven Web** link



The output will appear as shown below:



Following these steps, you have successfully explored different JSP tags in a web application using Eclipse IDE.