

Lab Exercises OOSS/BSA 2017.01.31

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[Getting Started](#)

1. Hello World

Create a 'hello world' web server app - follow the instructions in Getting Started [here](#)

2. Get a book example running

Follow the steps in the Getting Started doc [here](#).

The example is the Cookies one - selecting a programming language and getting recommendations later with a cookie. Book examples are [here](#).

3. Calculator

Create a web app (start with a new project as in 1 above) that has a form in index.jsp (or index.html) with a textfield and allows you to enter a number. A submit button causes the entered value to be converted from Fahrenheit to Celsius using a servlet. Put in a link back to the JSP.

Add a hit counter code to the JSP which increments each time the submit button is pressed.

4. Test JSP

Develop a JSP that outputs various items from the `request` implicit object e.g.

`request.getLocalName()`

Repeat for `session` implicit object.

5. Exercise 6 BMI Servlet

Develop a JSP to allow a user to enter their height and weight in separate textfields. The JSP has a submit button which activates the JSP when pressed. The JSP then displays the persons BMI. Body Mass Index formula: $\text{weight}/\text{height}^2$. Also display a message based on the BMI index:

Below 18.5 Underweight

18.5 -24.9 Normal

25 - 29.9 Overweight

30 & Above Obese

