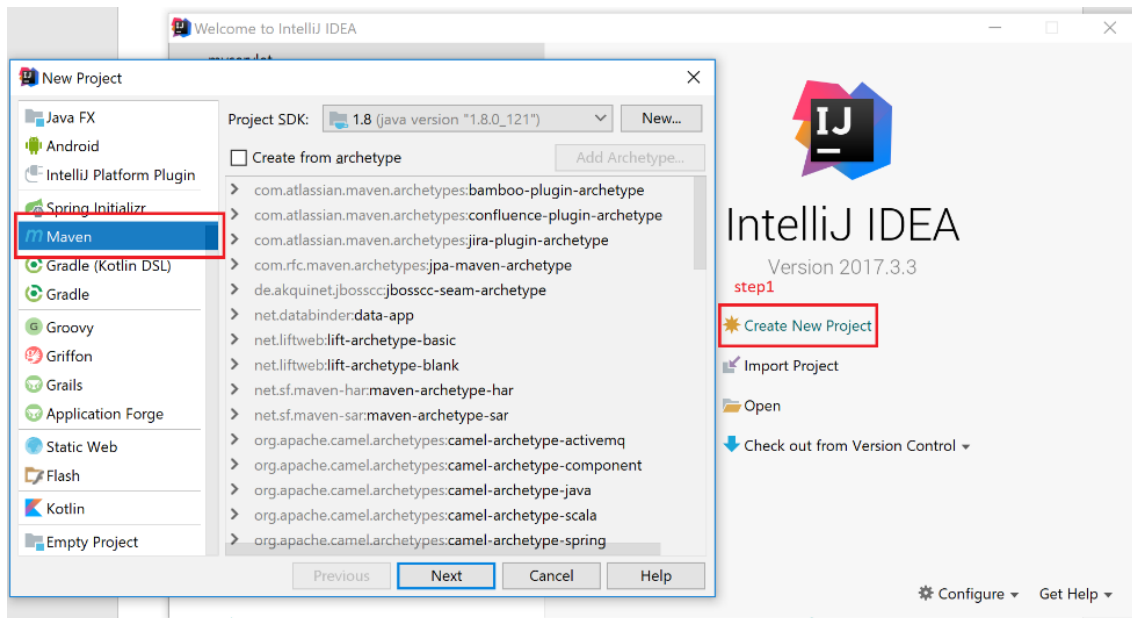


DEMO 1: First Servlet

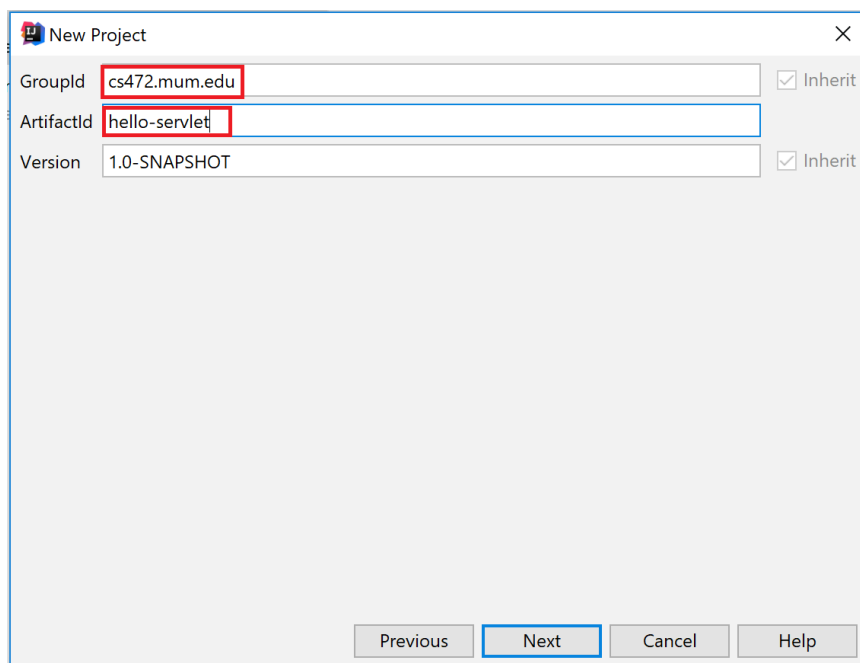
(instructions for IntelliJ IDEA using Tomcat)

Creating new maven based dynamic web project

Step 1



Step 2



Step 3

Next -> Finish

Step4

- a. Add following properties in file pom.xml

```
<properties>
  <maven.compiler.source>1.8</maven.compiler.source>
  <maven.compiler.target>1.8</maven.compiler.target>
</properties>
```

Notes:

- Copy above snippet between before project closing</project>
- b. Next, copy the following maven dependencies after the properties

```
<dependencies>
  <dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>javax.servlet-api</artifactId>
    <version>3.1.0</version>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>javax.el</groupId>
    <artifactId>javax.el-api</artifactId>
    <version>3.0.0</version>
    <scope>provided</scope>
  </dependency>

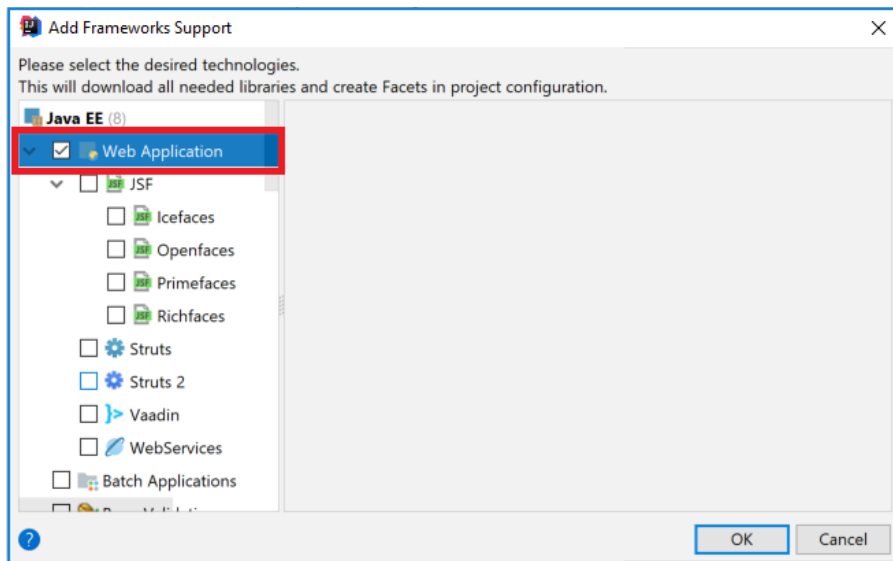
  <!-- https://mvnrepository.com/artifact/jstl/jstl -->
  <dependency>
    <groupId>jstl</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>
  </dependency>

  <!--Required for Custom Tags -->
  <dependency>
    <groupId>javax.servlet.jsp</groupId>
    <artifactId>javax.servlet.jsp-api</artifactId>
    <version>2.3.1</version>
    <scope>provided</scope>
  </dependency>
</dependencies>
```

- c. Right click **project**
 - I. Maven -> Reimport

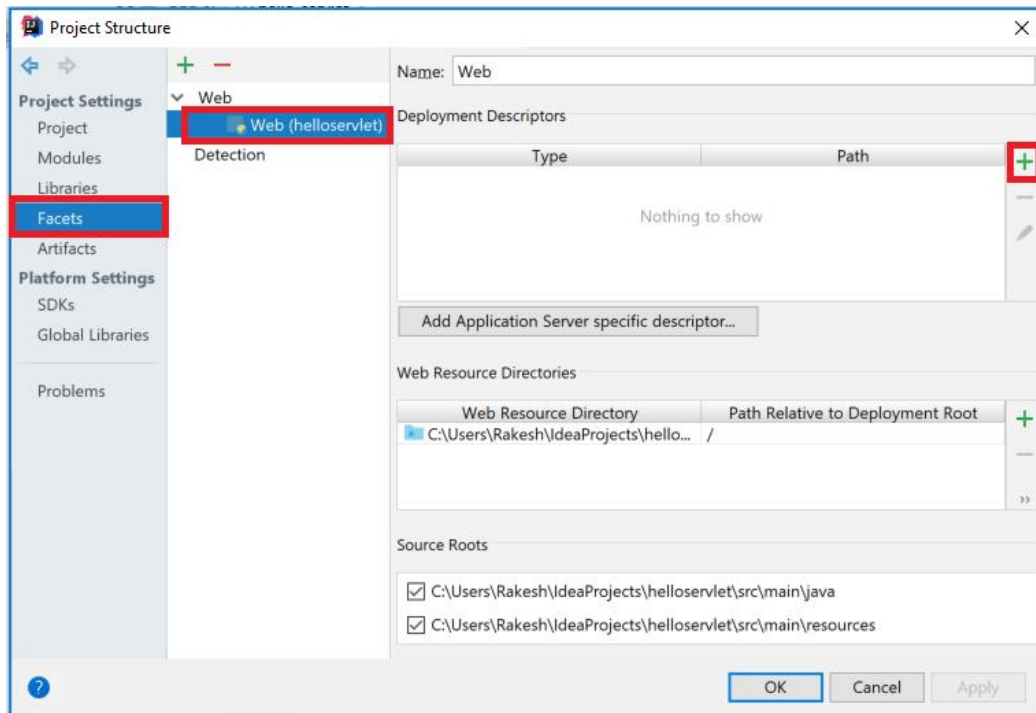
Step 5

Right click project -> Add Framework Support...



Step 6

a. File -> Project Structure -> Facets



b. Click WEB-INF/web.xml to auto create deployment descriptor.

Creating first servlet

1. Right click **src/main/java** folder in the Java Resources folder create a new Java Class 'HelloServlet'

2. Extend HttpServlet class

3. Override doGet() method

3. Replace the stub code in doGet with following one line of code:

```
resp.getWriter().println("Hello, World!");
```

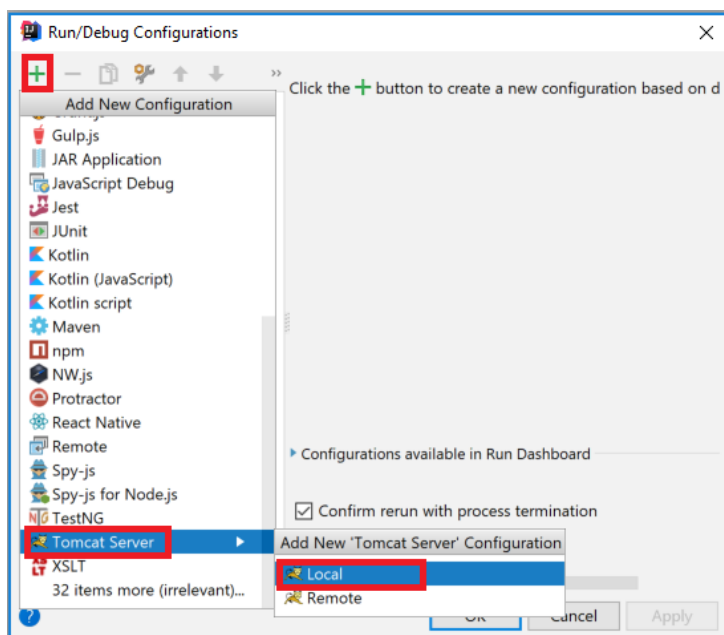
4. Add url-servlet mapping in web.xml as below

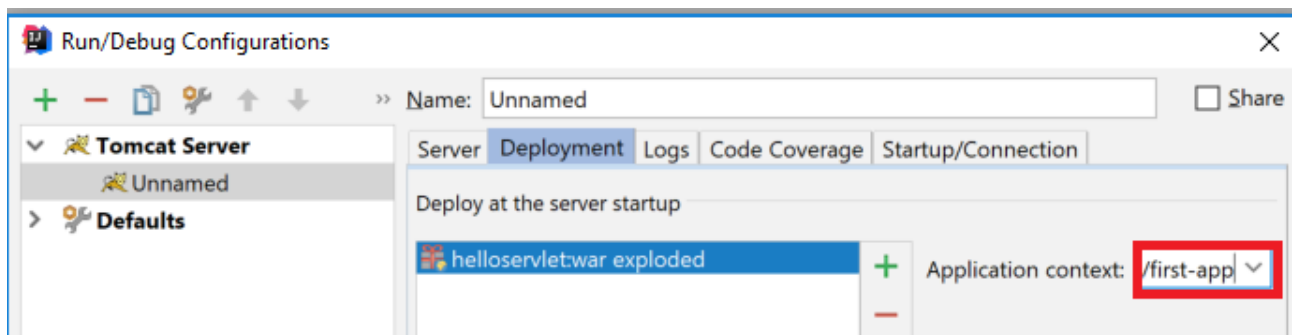
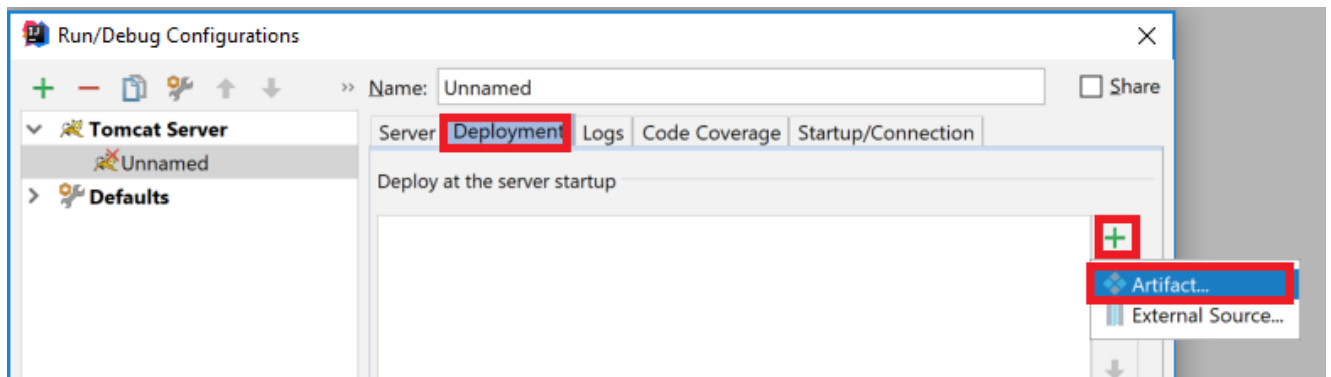
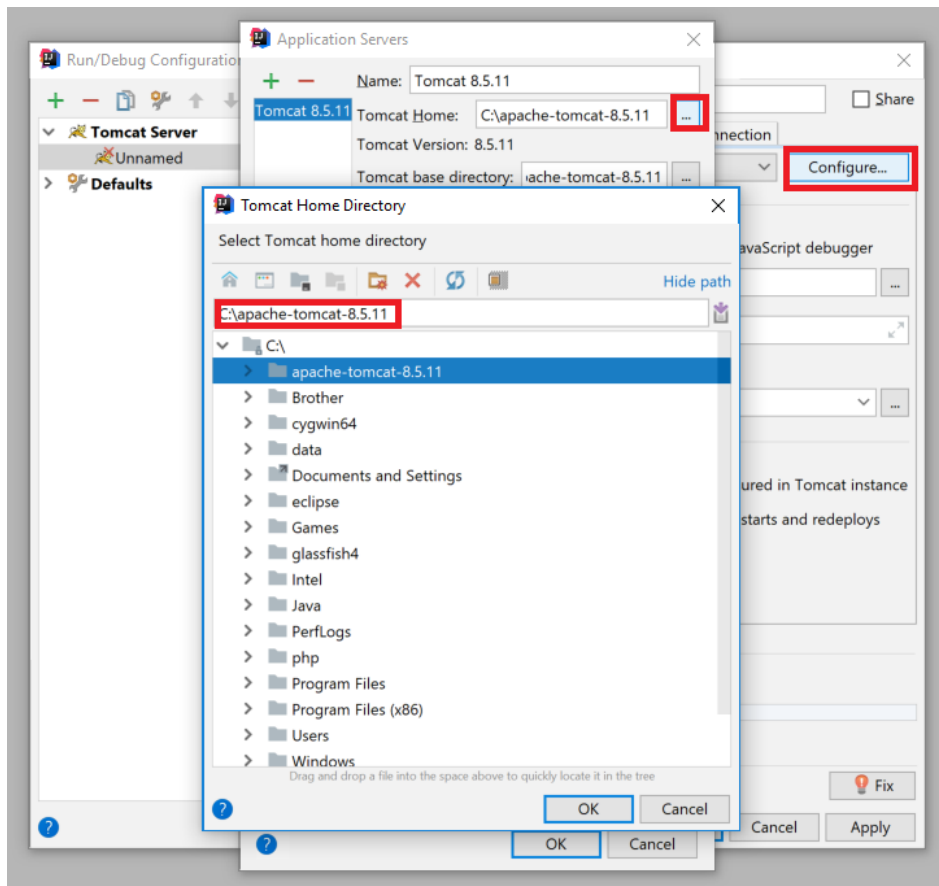
```
<servlet>
  <servlet-name>myservlet</servlet-name>
  <servlet-class>HelloServlet</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>myservlet</servlet-name>
  <url-pattern>/hello</url-pattern>
</servlet-mapping>
```

4. Now your first application is ready to run. (run it on Tomcat), but before that you have to configure Tomcat.

a. Download and extract Tomcat to your machine (e.g. on C:\ drive)

b. Click drop-down at top right corner of IntelliJ IDEA and click on edit configuration





Create second servlet

1. Put the following in the index.jsp (html) file

```
<a href='simple'>Start the simplest servlet app</a>
```

2. Map this servlet to url /simple

3. **Replace** the doGet method contents with following lines of code:

```
PrintWriter out = resp.getWriter();
out.print("<html><head><title>Test</title></head><body>");
out.print("<form method='post'>");
out.print("<p>Please click the button</p>");
out.print("<input type='submit' value='Click me' />");
out.print("</form>");
out.print("</body></html>");
```

4. **Replace** the doPost method contents with following lines of code:

```
PrintWriter out = resp.getWriter();
out.print("<html><head><title>Test</title></head><body>");
out.print("<p>Postback received</p>");
out.print("</body></html>");
```

5. Run application on Tomacat