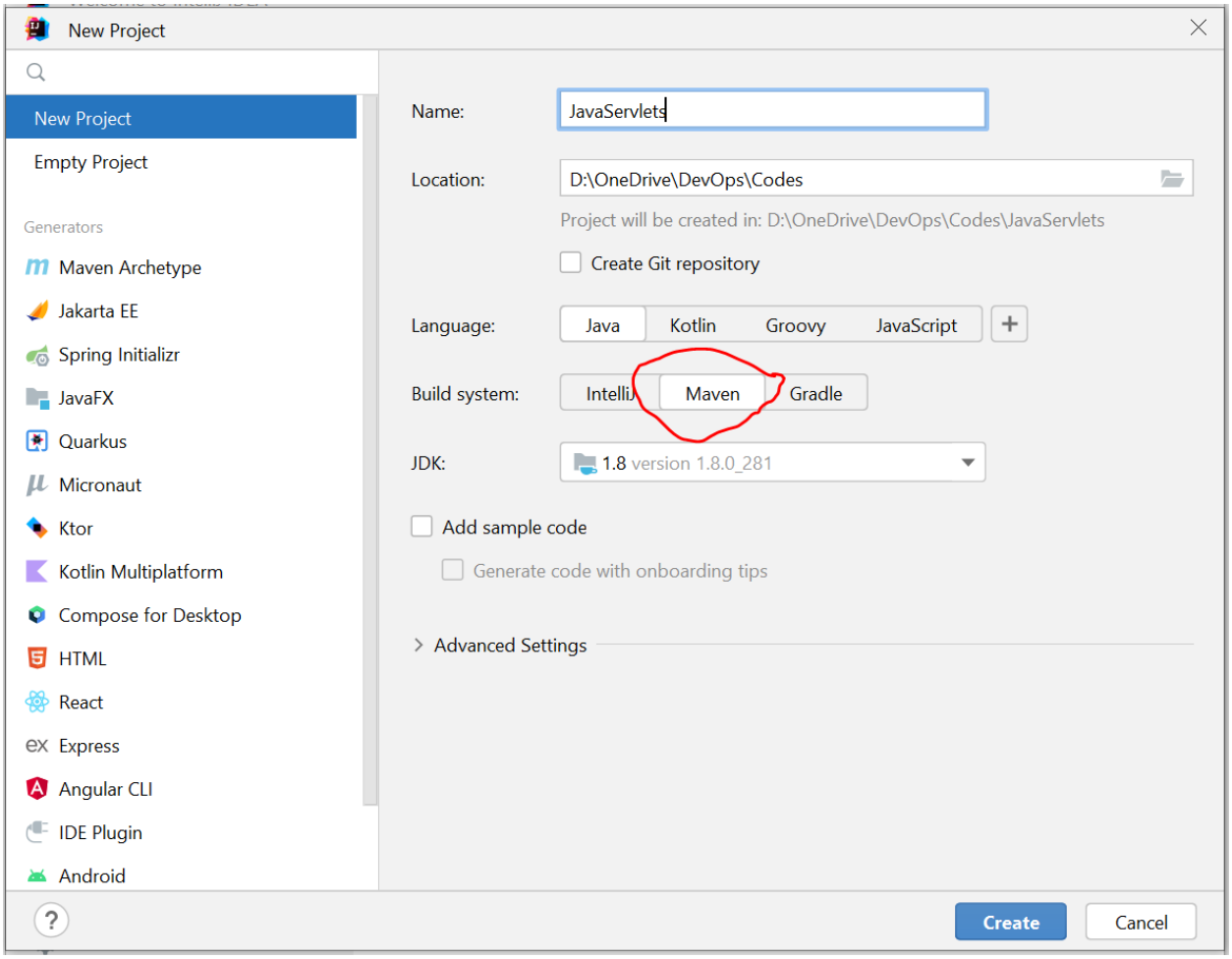
Step 1: Create a new Maven project in IntelliJ



Step 2: Add Web Application support to the project

- Select your project folder (see below)
- Press Ctrl Shift A to bring up the search window, type Add Framework Support (see following picture). Click to go into the Add Framework Support window
- Select JavaEE application and Web Application Option, click OK

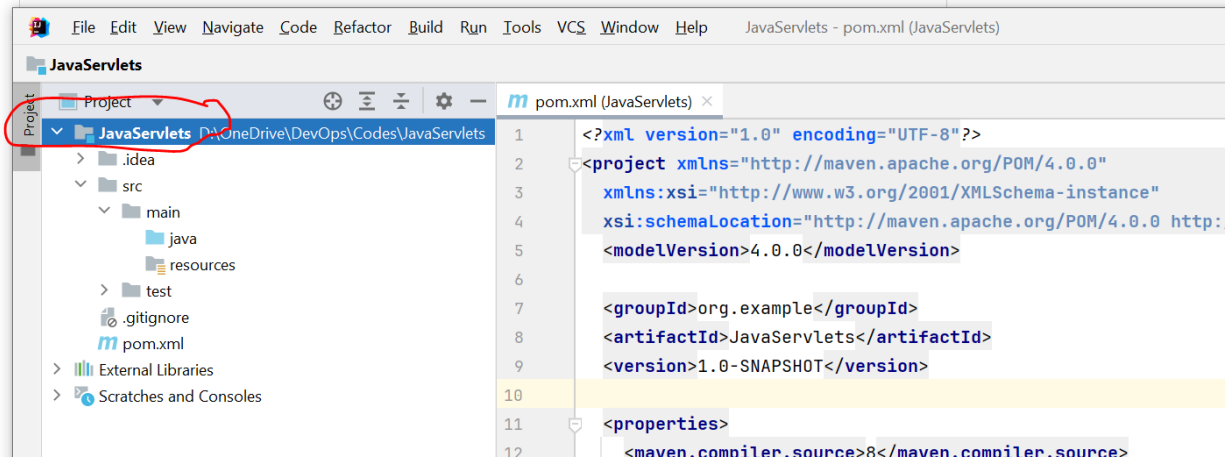
Add web application support to existing module

This information is valid for projects that are built with the native IntelliJ IDEA builder. If you're using a build tool, such as Maven or Gradle, make all changes using the build file.

1. In the **Project** tool window Alt 1, select the necessary module.
2. Press Ctrl Shift A and type `Add Framework Support`.

   Once the action is found, click it to open the **Add Framework Support** dialog.
3. In the dialog that opens, select **Web Application** and select a version of the Servlet specification.
4. If you want the deployment descriptor `web.xml` file to be created, select the **Create `web.xml`** checkbox.

   Click **OK**.



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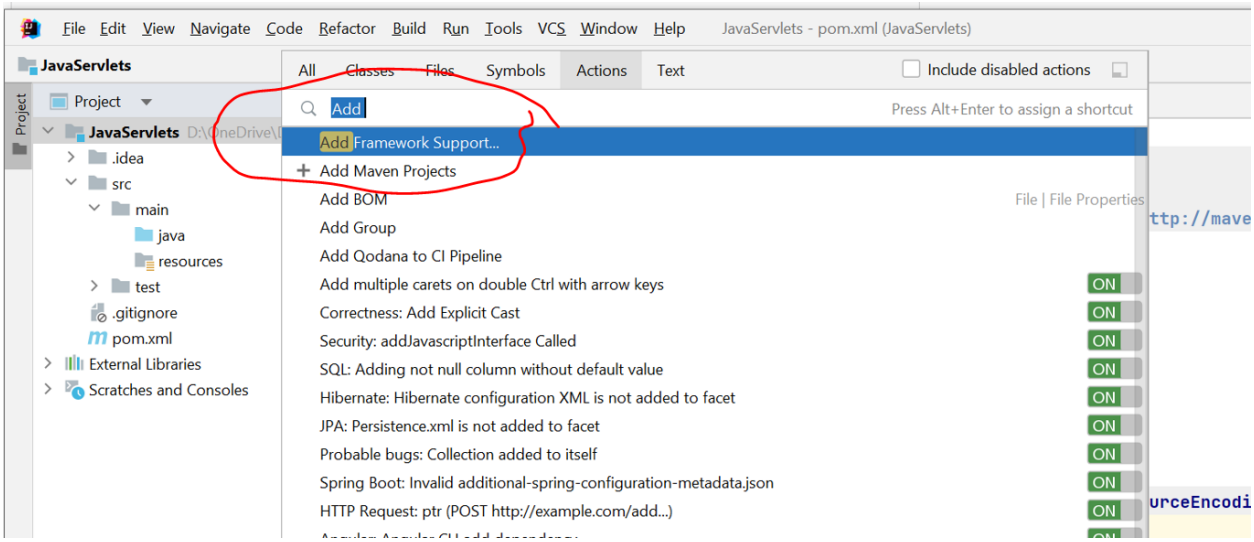
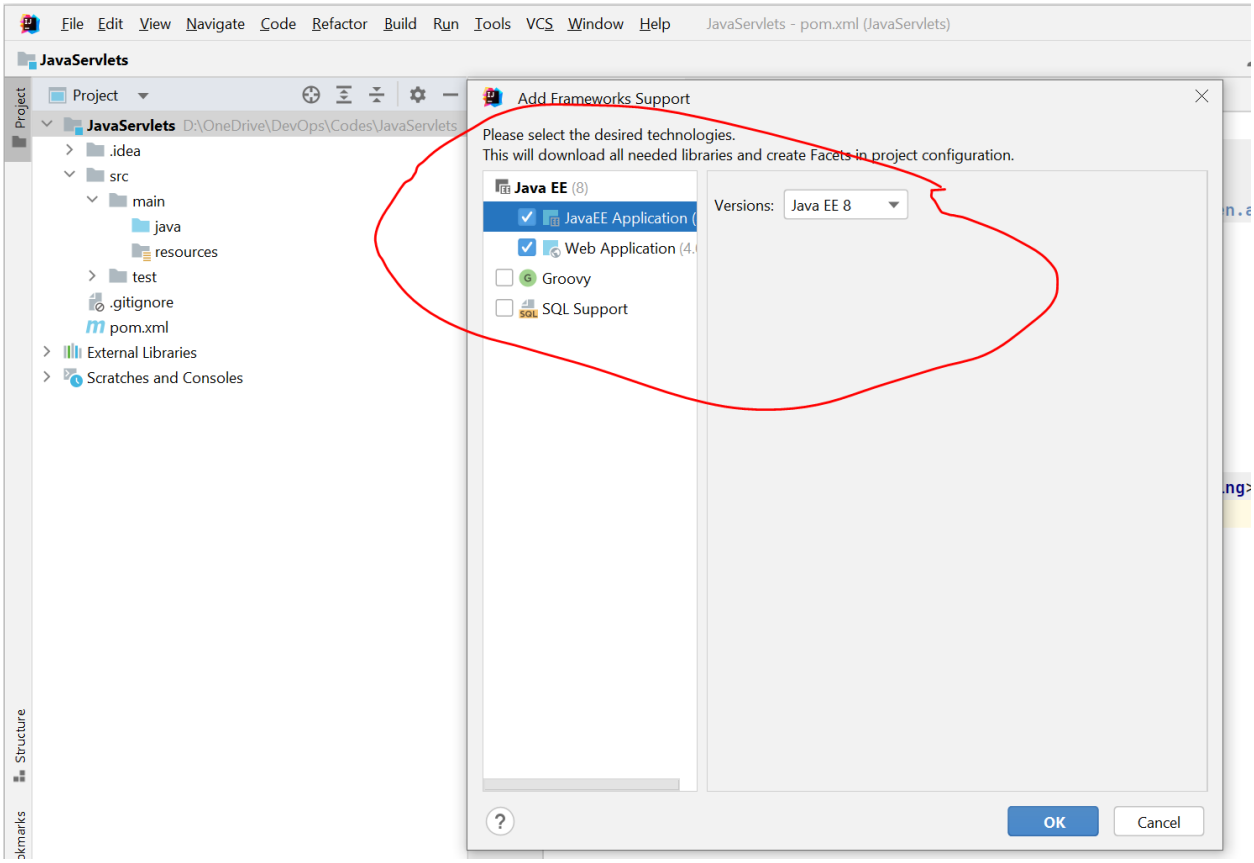
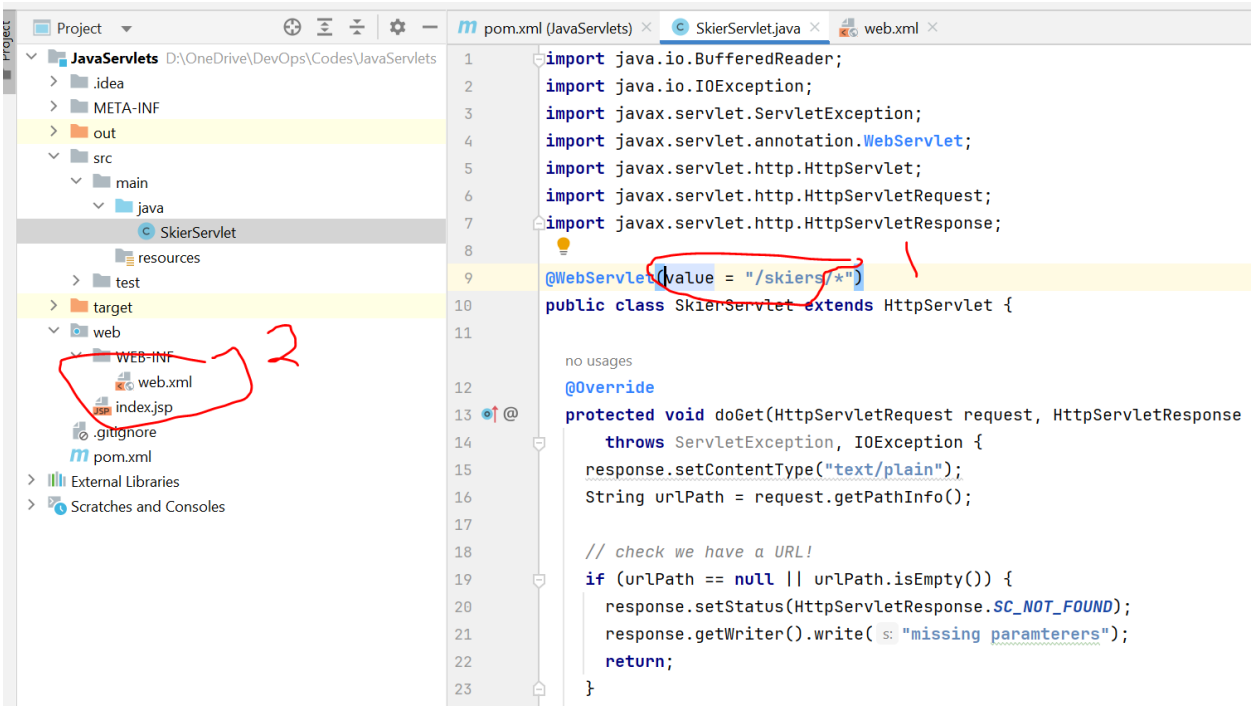




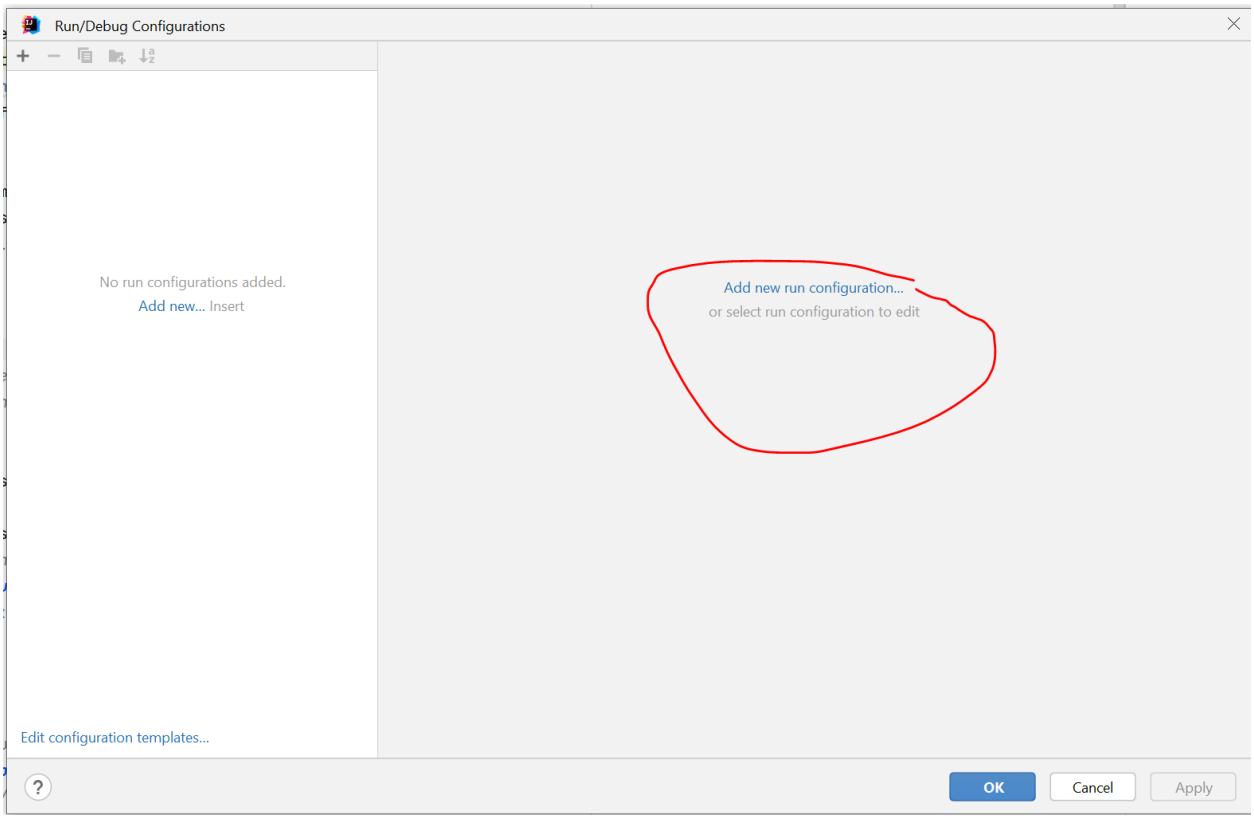
Step 3: Create Servlets

- Follow the Lab 2 instruction to add servlet dependency to your pom.xml. (Note your servlet version must be 4.XX not 5.XX)
- For instruction 3. Intellij 2023 don't provide new servlet template now. You will need to add your own webservlet annotations. Refer to picture below (point 1)
    - You only need to add the line @WebServlet(value = "/skiers/*")
    - Name is optional, to understand other servlet notations, check here https://www.codejava.net/java-ee/servlet/webservlet-annotation-examples
    - The value determine the url pattern that can be handled by your servlet.
    - If your value is "/skier" it can only handle url or <prefix>/skier and nothing else (like /skier/something)
    - For it to handle all possible url with the prefix path /skier, you need the annotation @WebServlet(value = "/skiers/*").
- Point 2 circled below show where your xml file is. Follow instruction 4 to add your servlet mapping.
- Follow instruction 5 to add your doGet & doPost method.



Step 4 Extra: Run your Java program on Tomcat from Intellij

- Make sure you have Tomcat 9 installed to match with Javax servlet version 4.xx
- From Intellij top menu, select run >> edit configuration to bring up window below
- Click add new run configuration



This will bring you to the next window. Note mine is already set up. For yours.

1. For Application_server, click the configure button and point it to the directory where you install Tomcat locally.
2. The URL after launch will be default. Note the port number
3. The HTTP port should be 8080 by default.
4. For first time run, you need to select the artifact file for deployment. Go to the deployment tab (beside the current Server tab) and select your war.exploded file.

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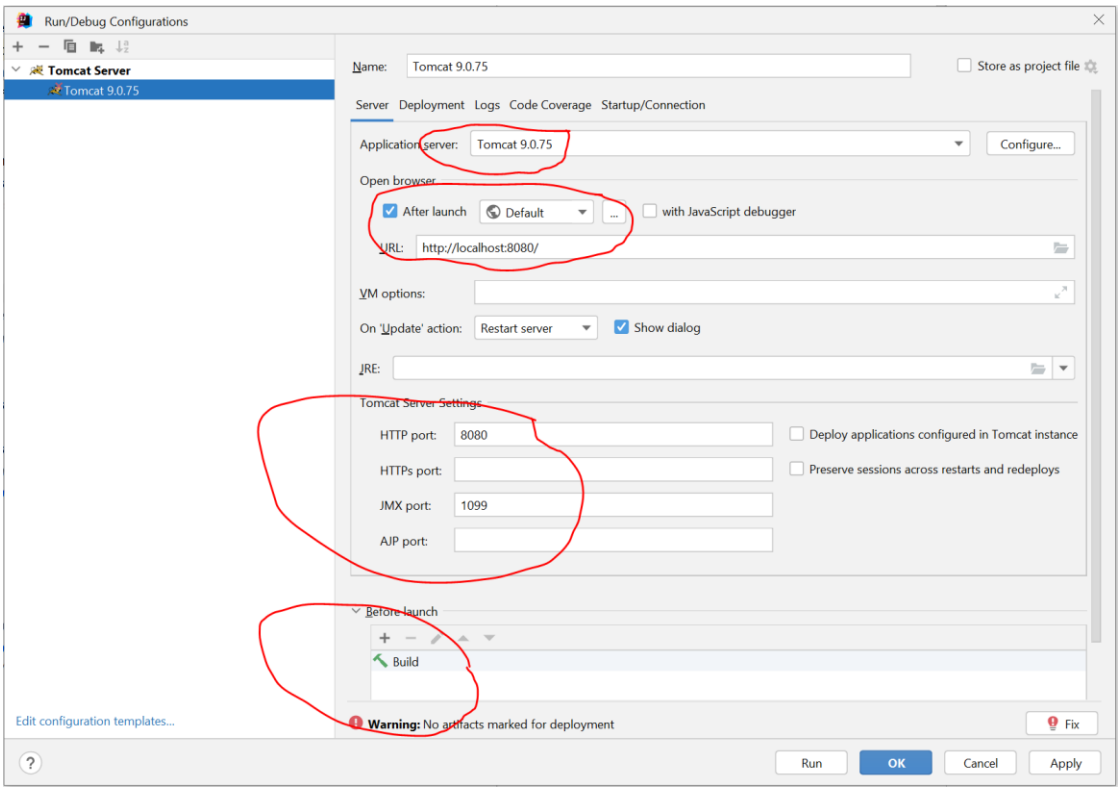

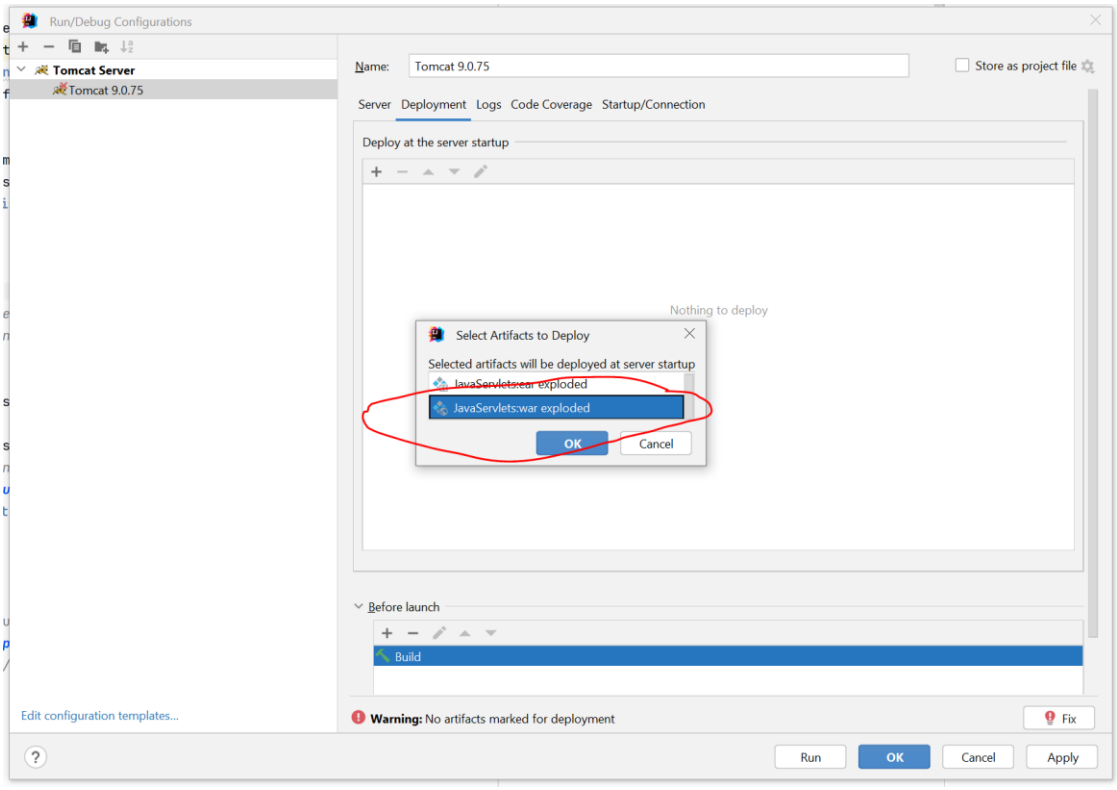

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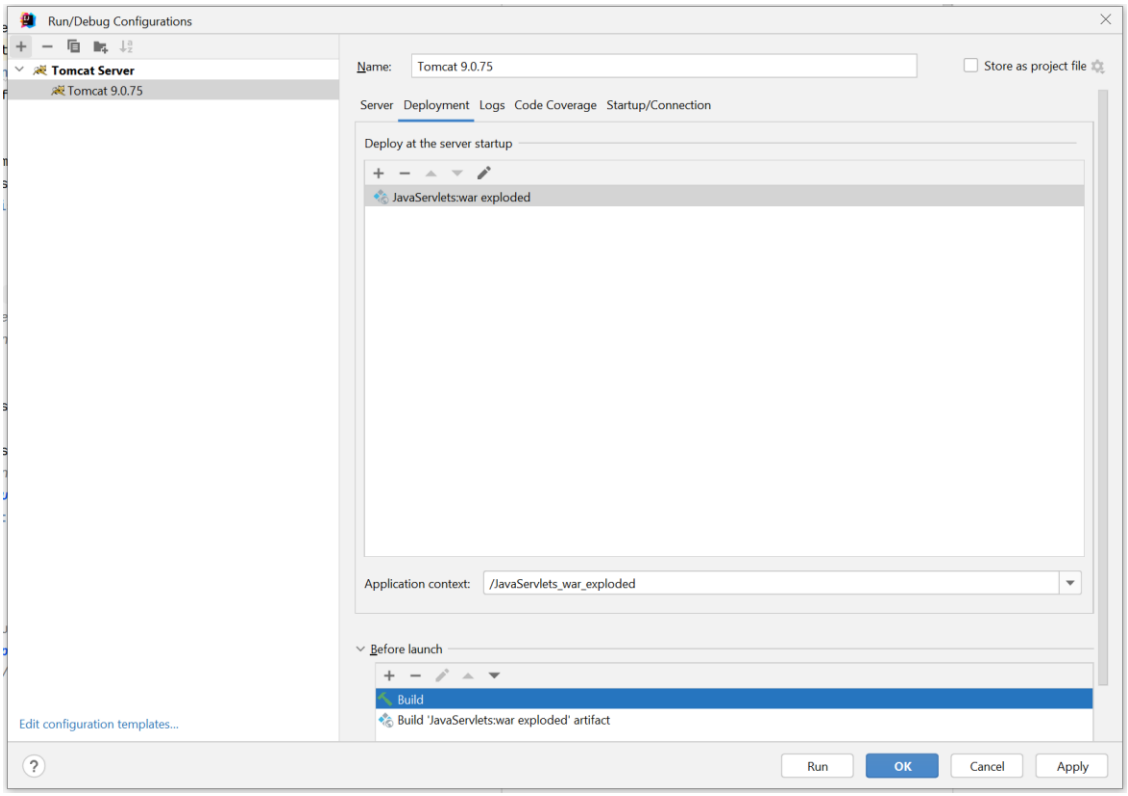
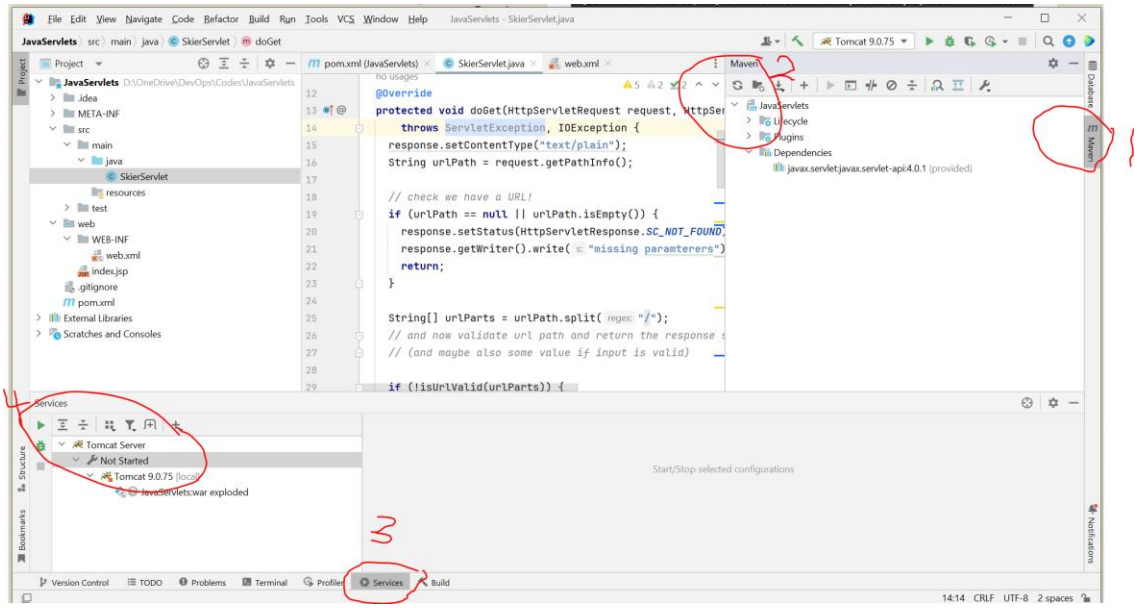


Additional Info for you.

1. Tab to bring up maven window.
2. Refresh button allow you to update the dependencies manually
3. Services tab at the bottom bring you to the Tomcat Service
4. Click the green arrow button to start your Java server.