

Maven Assignment

Q.1. Add dependency of the following in your project's POM and make them available in Felix Console.

`com.google.gson.Gson`

Version : 2.8

Pom.xml

The screenshot shows an IDE window with the following components:

- Project Explorer:** Shows the project structure with folders like `main`, `test`, and `target`. The `com.ttn.sling.project.core` package is visible.
- Code Editor:** Displays the `pom.xml` file. The following dependency is added:

```
<dependency>
  <groupId>com.google.code.gson</groupId>
  <artifactId>gson</artifactId>
  <version>2.8.5</version>
  <scope>provided</scope>
</dependency>
```
- Terminal:** Shows the build output, including the following messages:

```
[INFO] Installing Bundle osgiDemo(/home/ttn/aem_maven/osgiDemo/target/osgiDemo-1.0.0-SNAPSHOT.jar) to http://localhost:8080/system/console via WebConsole
[INFO] Bundle installed
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.527 s
[INFO] Finished at: 2019-03-20T17:06:47+05:30
[INFO] Final Memory: 22M/308M
[INFO] -----
ttn@ttn: osgiDemo $
```

GsonDemo Class

The screenshot shows an IDE with the following components:

- Project Explorer:** Shows the project structure with folders `main`, `test`, and `target`. The `main` folder contains `com.ttn.sling.project.core` (with `SimpleDSComponent` and `test` subfolders) and `service` (with `impl` subfolder). The `impl` folder contains `ConfiguratonDemo`, `FirstServiceDemo`, `GsonDemo`, `UseDemo`, and `FirstService`.
- Code Editor:** Displays the `GsonDemo.java` file with the following code:

```
1 package service.impl;
2
3 import com.google.gson.Gson;
4
5 public class GsonDemo {
6     Gson gson = new Gson();
7 }
8
```
- Terminal:** Shows the output of the Maven build process:

```
[INFO] Installing Bundle osgiDemo(/home/ttn/aem_maven/osgiDemo/target/osgiDemo-1.0.0-SNAPSHOT.jar) to http://localhost:8080/system/console via WebConsole
[INFO] Bundle installed
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.527 s
[INFO] Finished at: 2019-03-20T17:06:47+05:30
[INFO] Final Memory: 22M/308M
[INFO] -----
ttn@ttn:osgiDemo $
```

Output

The screenshot shows the Apache Sling Web Console Bundles page. The bundle information is as follows:

Id	Name	Version	Category	Status	Actions
173	osgiDemo (osgiDemo)	1.0.0.201903201136		Installed	

Bundle information: 174 bundles in total, 172 bundles active, 1 active fragments, 1 bundles installed

Bundle Details:

- Symbolic Name:** osgiDemo
- Version:** 1.0.0.201903201136
- Bundle Location:** inputstream:osgiDemo-1.0.0-SNAPSHOT.jar
- Last Modification:** Wed Mar 20 17:06:47 IST 2019
- Start Level:** 20
- Imported Packages:**
 - com.google.gson:version=[2.8.3] - Cannot be resolved
 - javax.script from org.apache.felix.framework (0)
 - org.apache.sling.scripting.sightly.pojo:version=[1.0.2] from org.apache.sling.scripting.sightly.compiler.java (181)
 - org.osgi.framework:version=[1.5.2] from org.apache.felix.framework (0)
 - org.osgi.service.component:version=[1.1.2] from org.apache.felix.scr (50)
 - org.slf4j:version=[1.7.2] from slf4j.api (20)
- Manifest Headers:**
 - Archiver-Version: Plexus Archiver
 - Build-Id: 1.8.0_202
 - Build-By: ttn
 - Bundle-ManifestVersion: 2
 - Bundle-Name: osgiDemo
 - Bundle-SymbolicName: osgiDemo
 - Bundle-Version: 1.0.0.201903201136
 - Created-By: 1.8.0_202 (Amazon.com Inc.)
 - Import-Package: com.google.gson; version="[2.8.3]", javax.script, org.apache.sling.scripting.sightly.pojo; version="[1.0.2]", org.osgi.framework; version="[1.5.2]", org.osgi.service.component; version="[1.1.2]", org.slf4j; version="[1.7.2]"
 - Private-Package: com.ttn.sling.project.core, service, service.impl
 - Provide-Capability: osgi.service; objectClass:List=java.lang.Runnable", osgi.service; objectClass:List=service.FirstService"
 - Require-Capability: osgi.extender; filter:="(&(osgi.extender=org.osgi.component)(version>=1.3.0)(version>=2.0.0))", osgi.service; filter:="(objectClass=service.FirstService)", effective:=active, osgi.ee; filter:="(osgi.ee=JavaSE)(version=1.8)"
 - Service-Component: OSGI-INF/com.ttn.sling.project.core.SimpleDSComponent.xml, OSGI-INF/service.impl.FirstServiceDemo.xml