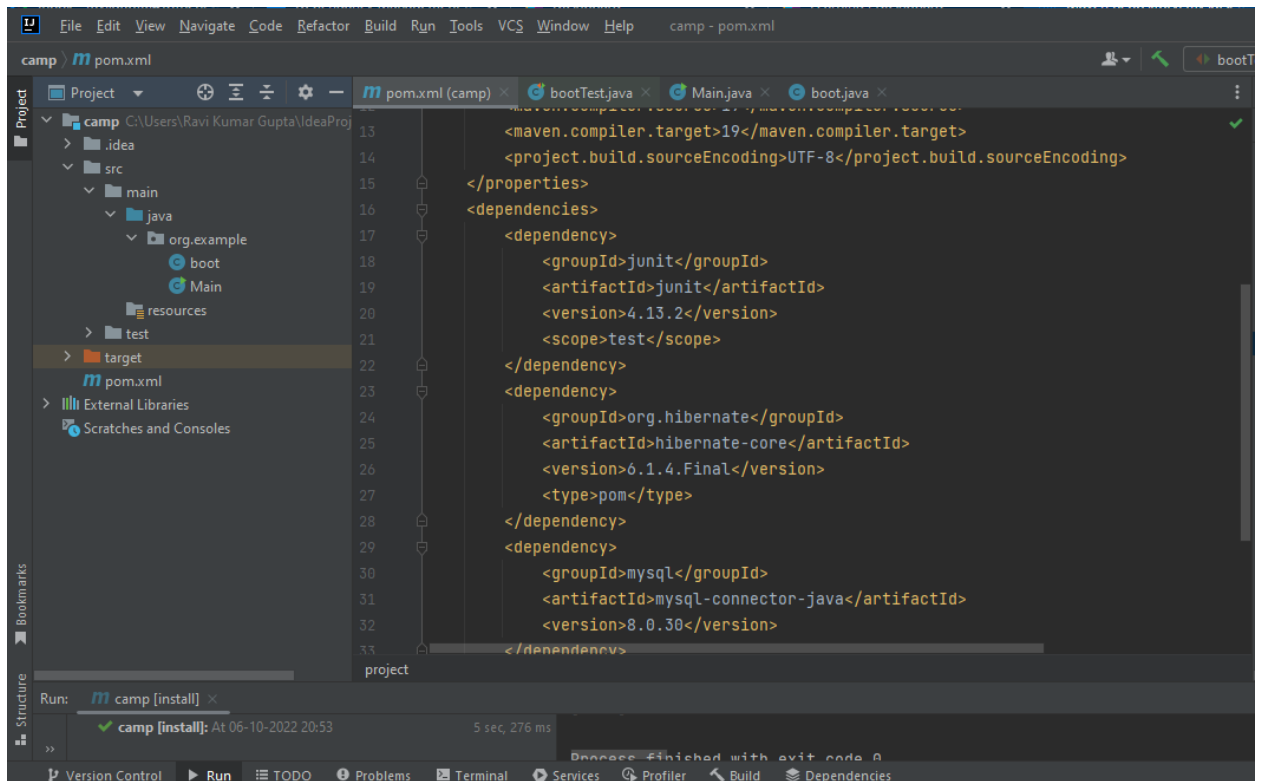
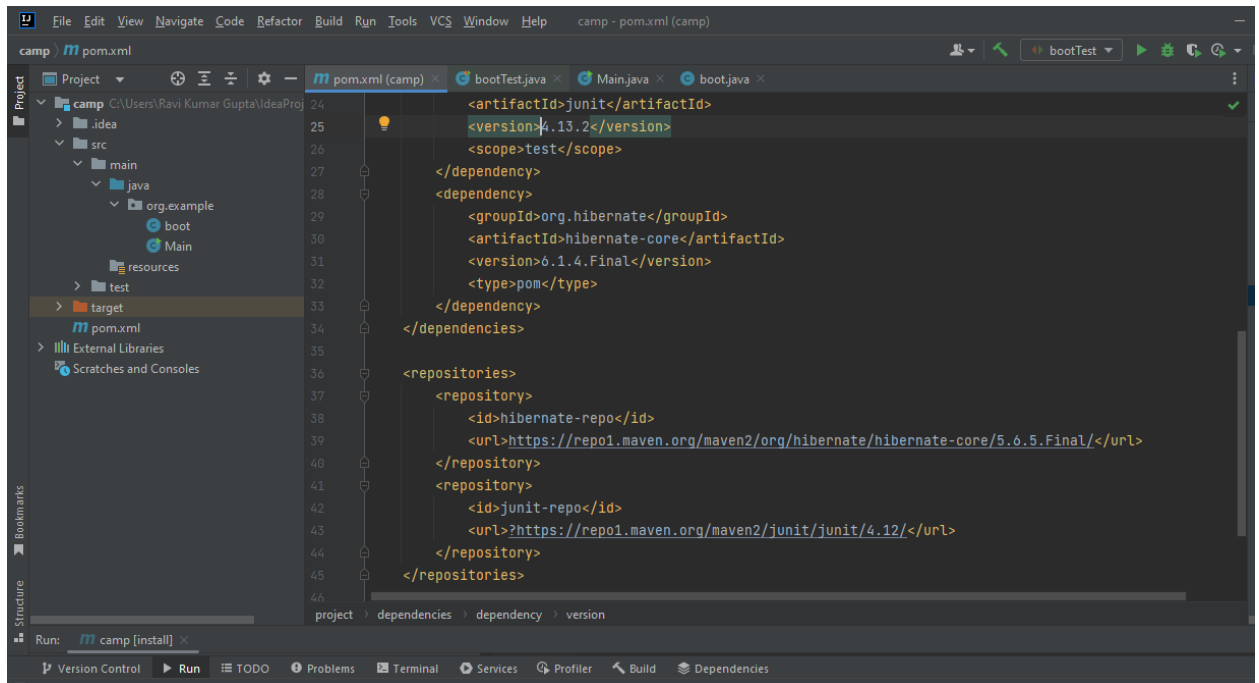


Exercise:

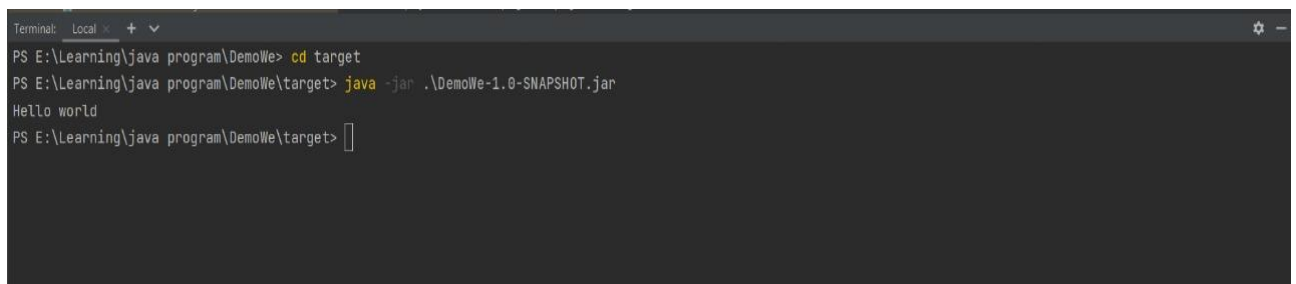
1. Add a maven dependency and its related repository URL.



2. Add a new repository in the pom.xml and use its dependencies.



3. Using JAR plugin, make changes in the pom.xml to make the jar executable. Using `java -jar JAR_NAME`, the output should be printed as "Hello World"



4. Differentiate between the different dependency scopes: compile, runtime, test, provided using different dependencies being defined in your pom.xml.

Ans.

Compile:

This is the default scope, used if none is specified. Compile dependencies are available in all classpaths of a project. Furthermore, those dependencies are propagated to dependent projects.

```
<dependencies>
<dependency>
<groupId>org.springframework</groupId>
<artifactId>spring-context</artifactId>
<version>1.2.14</version>
<scope>compile</scope>
</dependency>
</dependencies>
```

Runtime:

This scope indicates that the dependency is not required for compilation, but is for execution. It is in the runtime and test classpaths, but not the compile classpath.

```
<dependency>
<groupId>mysql</groupId>
<artifactId>mysql-connector-java</artifactId>
<version>4.0.6</version>
<scope>runtime</scope>
</dependency>
```

Test:

This scope indicates that the dependency is not required for normal use of the application, and is only available for the test compilation and execution phases.

```
<dependency>  
  <groupId>junit</groupId>  
  <artifactId>junit</artifactId>  
  <version>4.2</version>  
  <scope>test</scope>  
</dependency>
```