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

Dependency:

Repository:

- 2.Add a new repository in the pom.xml and use its dependencies.
- >>I am using remote repository of hibernate.

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"

```
lakshay@ttnpl-5752:~/Desktop/MavenAssignment/target$ java -jar BootCamp-Exercise-1.0-SNAPSHOT.jar
Hello World
lakshay@ttnpl-5752:~/Desktop/MavenAssignment/target$
```

- 4. Differentiate between the different dependency scopes: compile, runtime, test, provided using different dependencies being defined in your pom.xml.
- >>compile It is the default scope. It is needed to build, test and run the project.
- >>runtime They are not needed to build, but are part of the classpath to test and run the project.
- >>test They are needed to compile and run the unit tests.
- >>**provided** It is used for only build and testing the project. The dependencies are provided during runtime.

```
<dependency>
   <groupId>mysql</groupId>
   <artifactId>mysql-connector-java</artifactId>
   <version>8.0.28
   <scope>compile</scope>
</dependency>
<dependency>
   <groupId>org.hibernate</groupId>
   <artifactId>hibernate-core</artifactId>
   <version>5.5.6
   <scope>runtime</scope>
</dependency>
<dependency>
   <groupId>junit</groupId>
   <artifactId>junit</artifactId>
   <version>4.4</version>
   <scope>test</scope>
</dependency>
   <dependency>
       <groupId>log4j</groupId>
       <artifactId>log4j</artifactId>
       <version>1.2.14
       <scope>provided</scope>
   </dependency>
```

5.Create a multi-module project. Run package command at the top level to make jar of every module.

```
    mutli-module-project ~/Desktop/mutli-
    idea
    idea
    idea
    im data
    im src
    im pom.xml
    im network
    im src
    im pom.xml
    im pom.xml
    im pom.xml
    im src
    im pom.xml
    im p
```