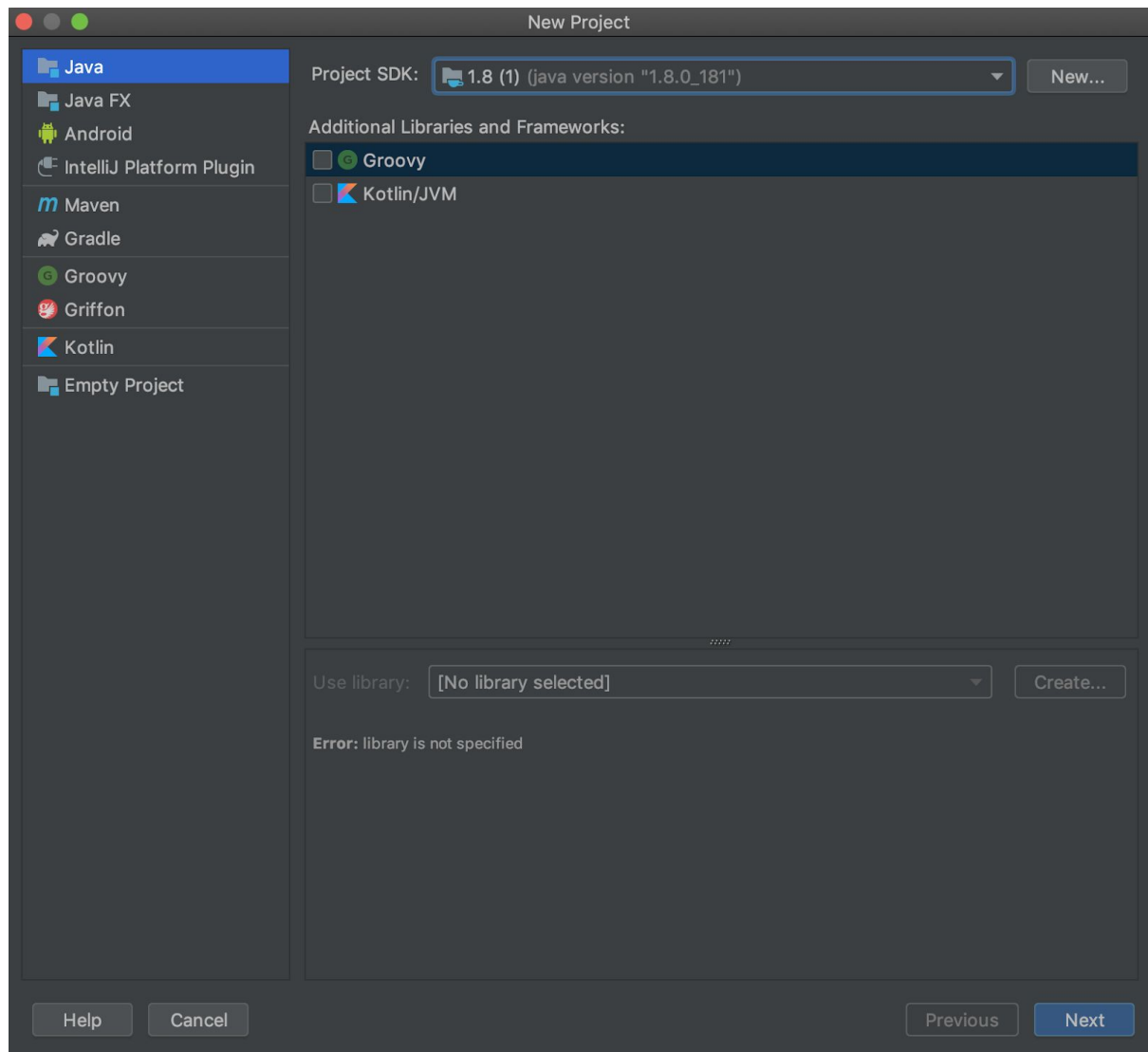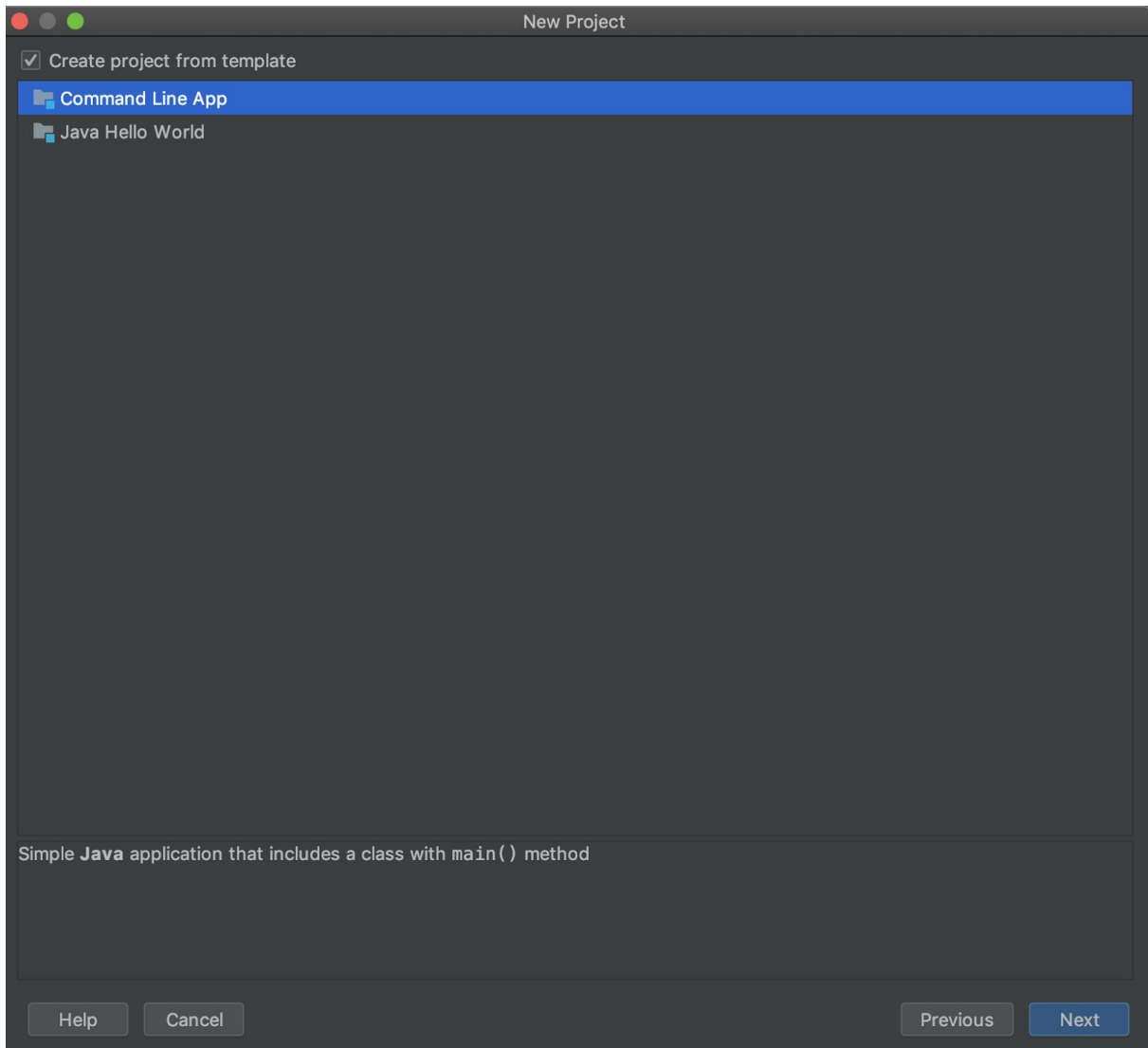When I created a new executable Jar file for my java project, I had experienced some problems, such as `could not find or load main class` ..., `cannot find the dependency class.`
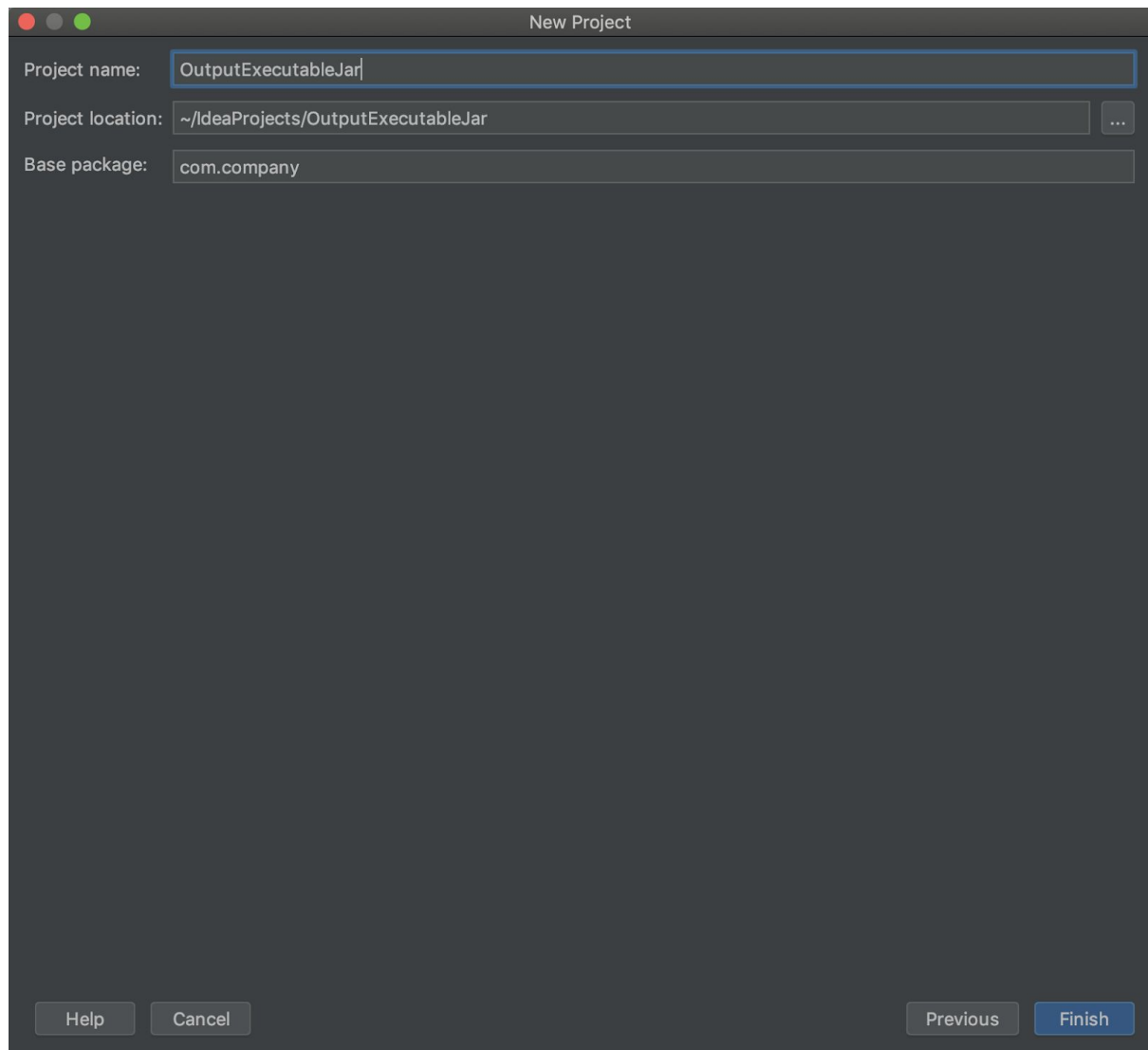
The following practice shows how to create an executable Jar file in IntelliJ IDEA Community version 2018.2.

1. New an example project

New Project

☑ Create project from template

📁 **Command Line App**
📁 Java Hello World

Simple **Java** application that includes a class with `main()` method

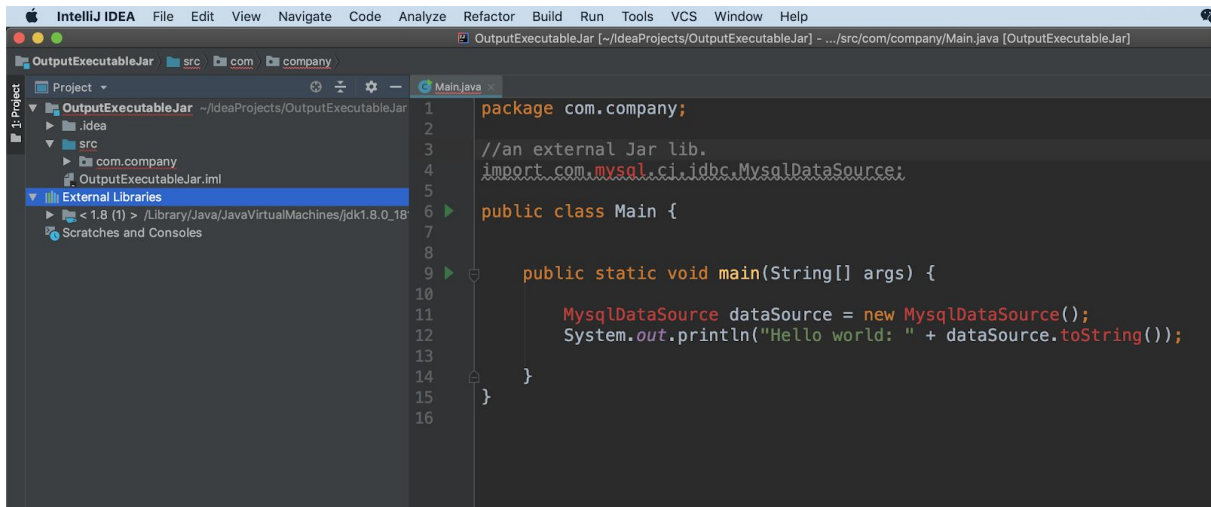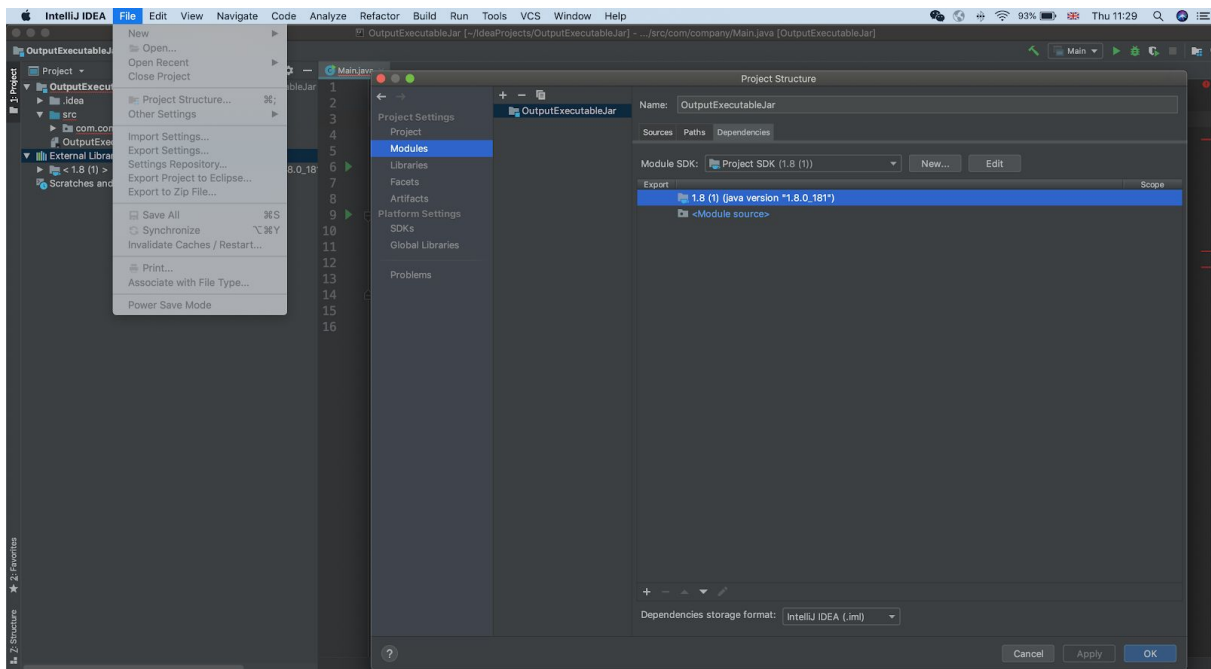[Help] [Cancel]   [Previous] [Next]

2. External lib

Your java program may need external classes. Here is a simple example with external lib com.mysql.cj.jdbc.MysqlDataSource.
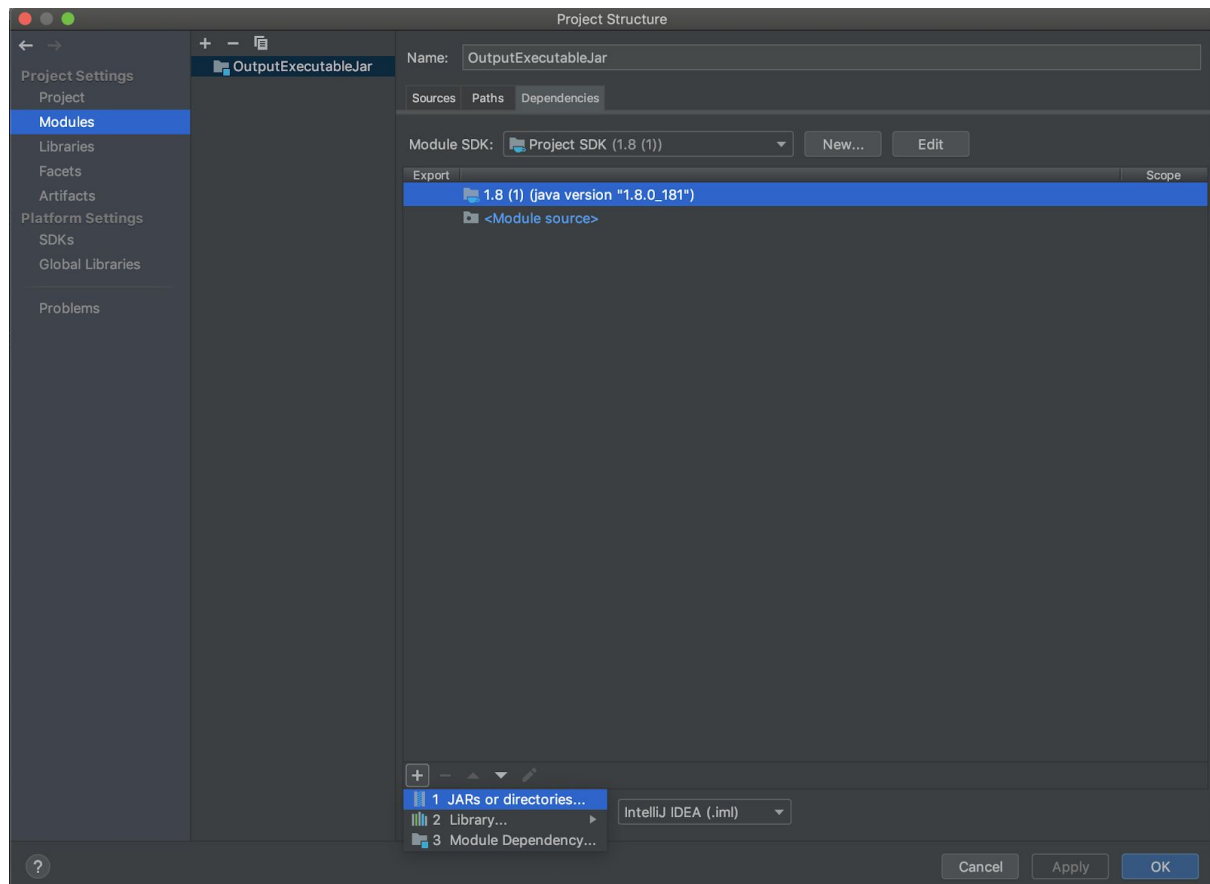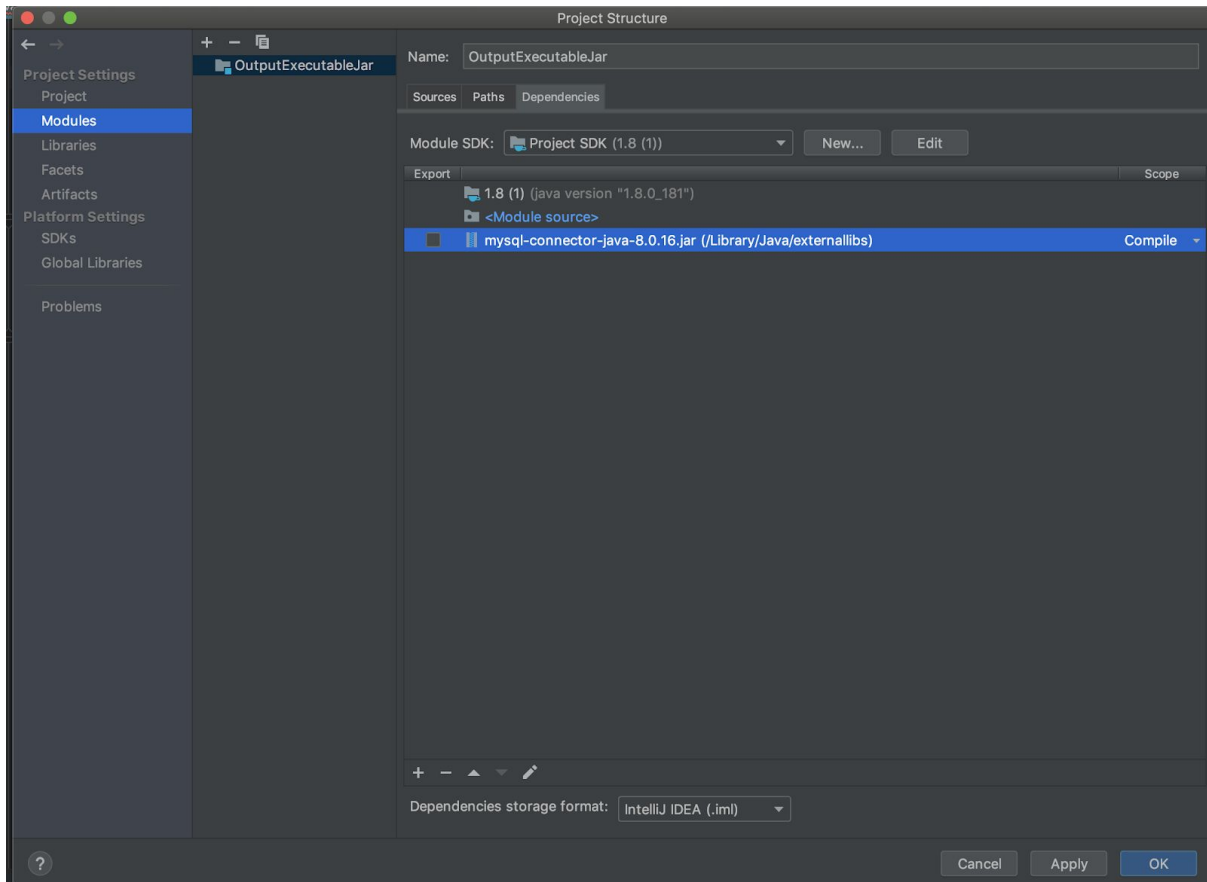
3. Add dependency

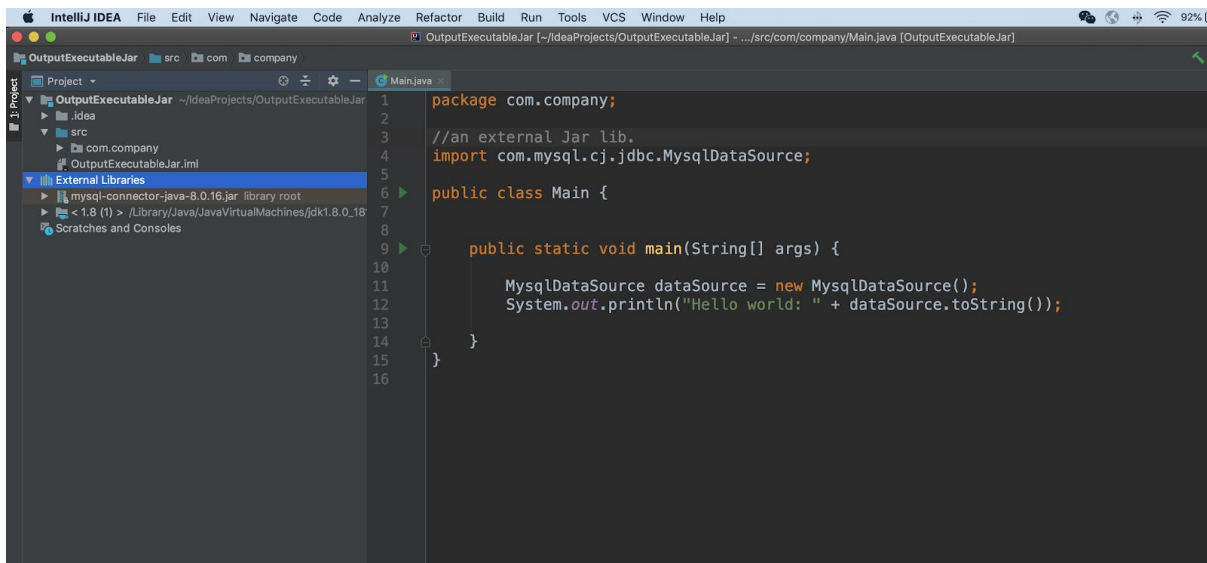- Select File->Project Structure
- Select Modules

- Select + -> 1 JARS or directories.

- Select the jar file (You need to download the jar file, e.g. store it in directory xxx) in the directory xxx. Click open. External lib is added successfully. Click ok.
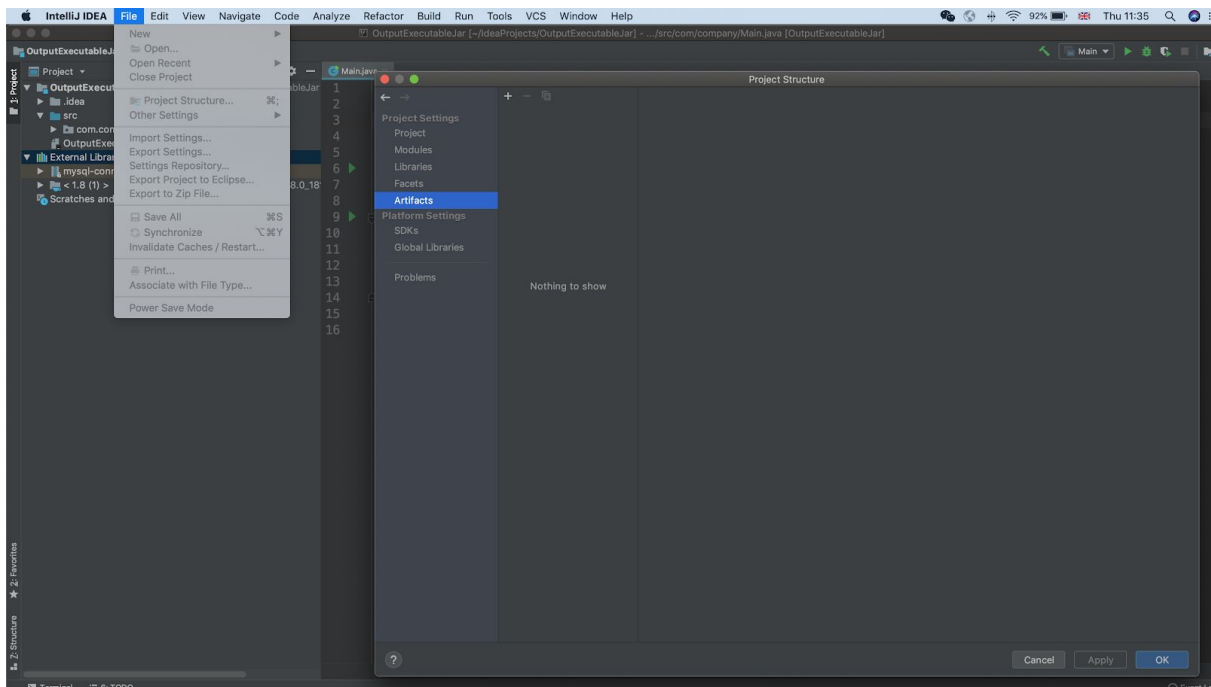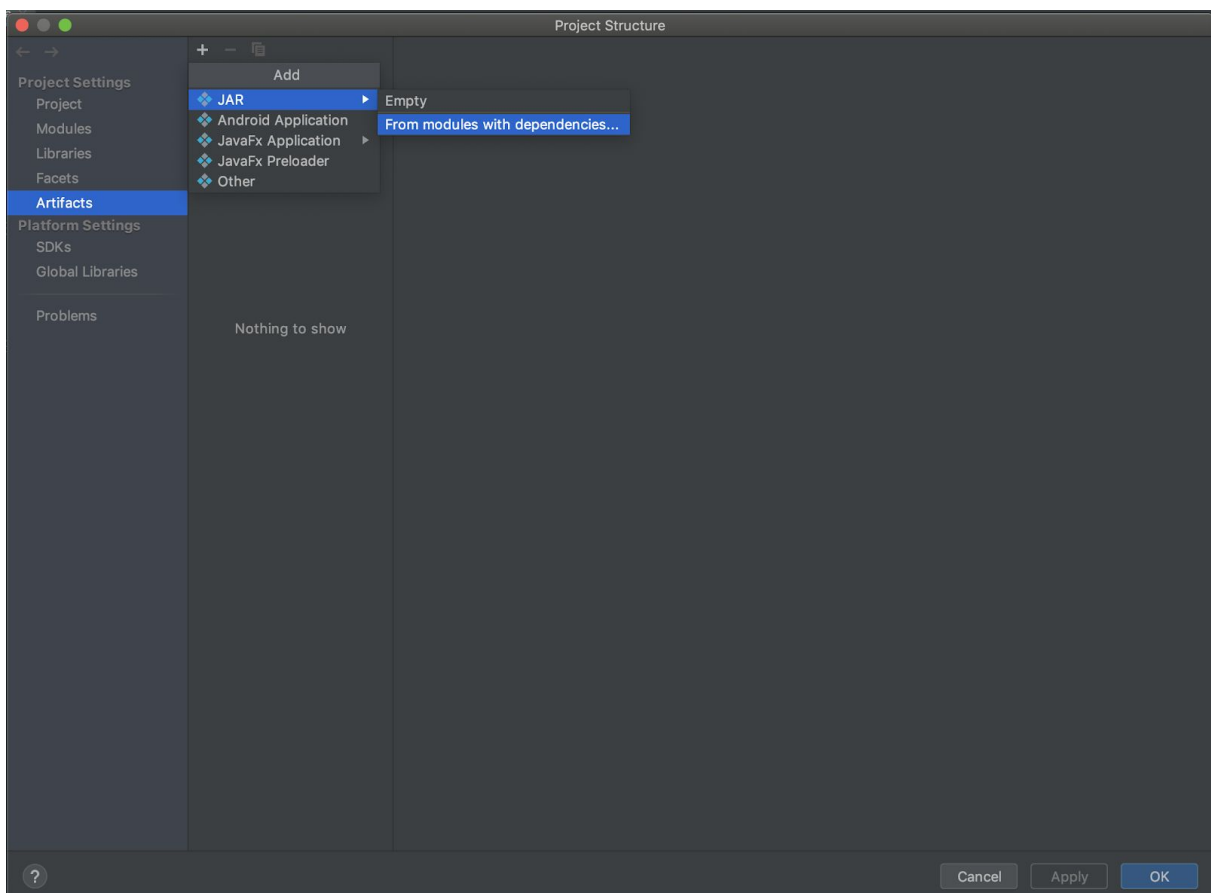
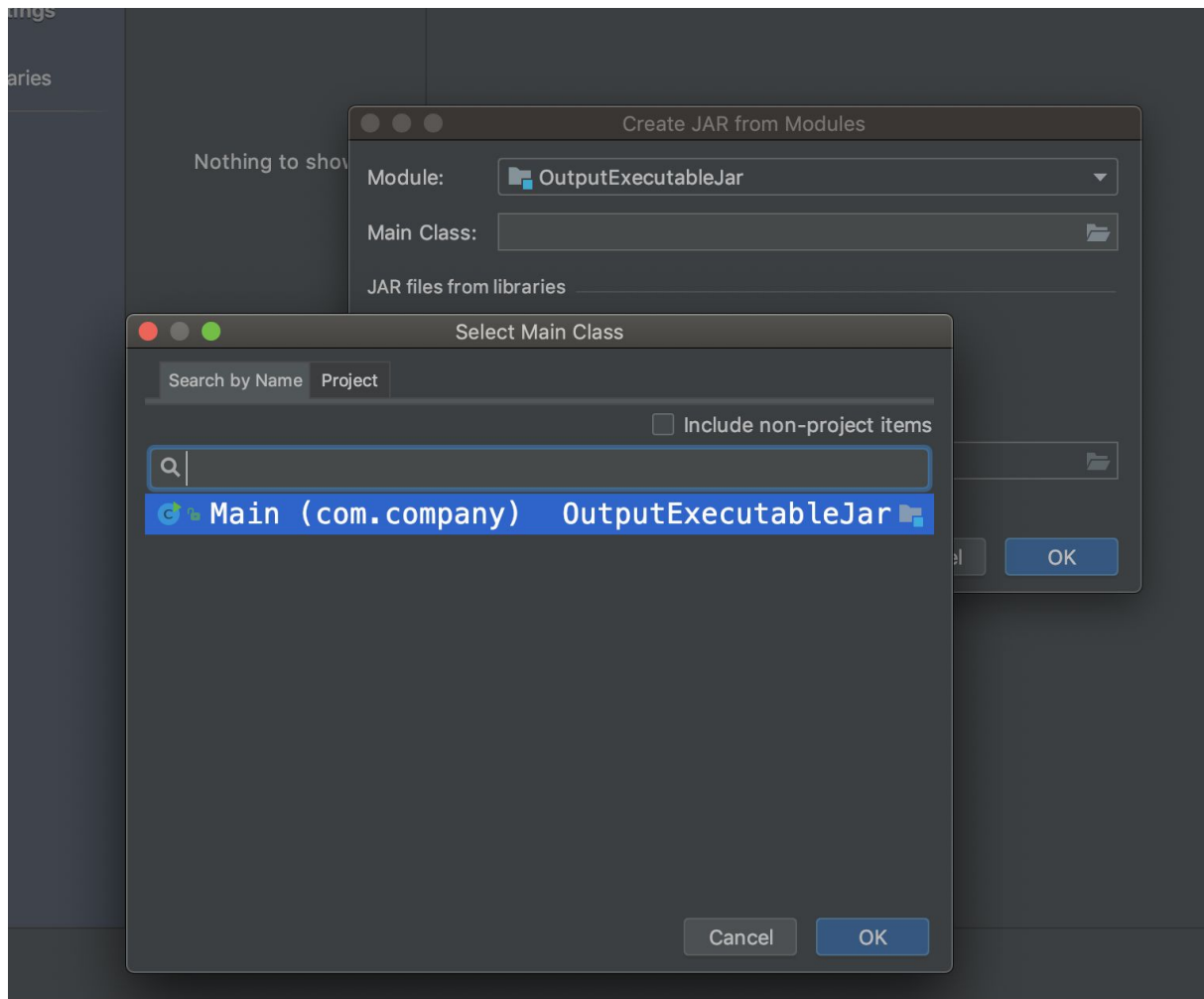No alarms anymore.

4. Create executable Jar file

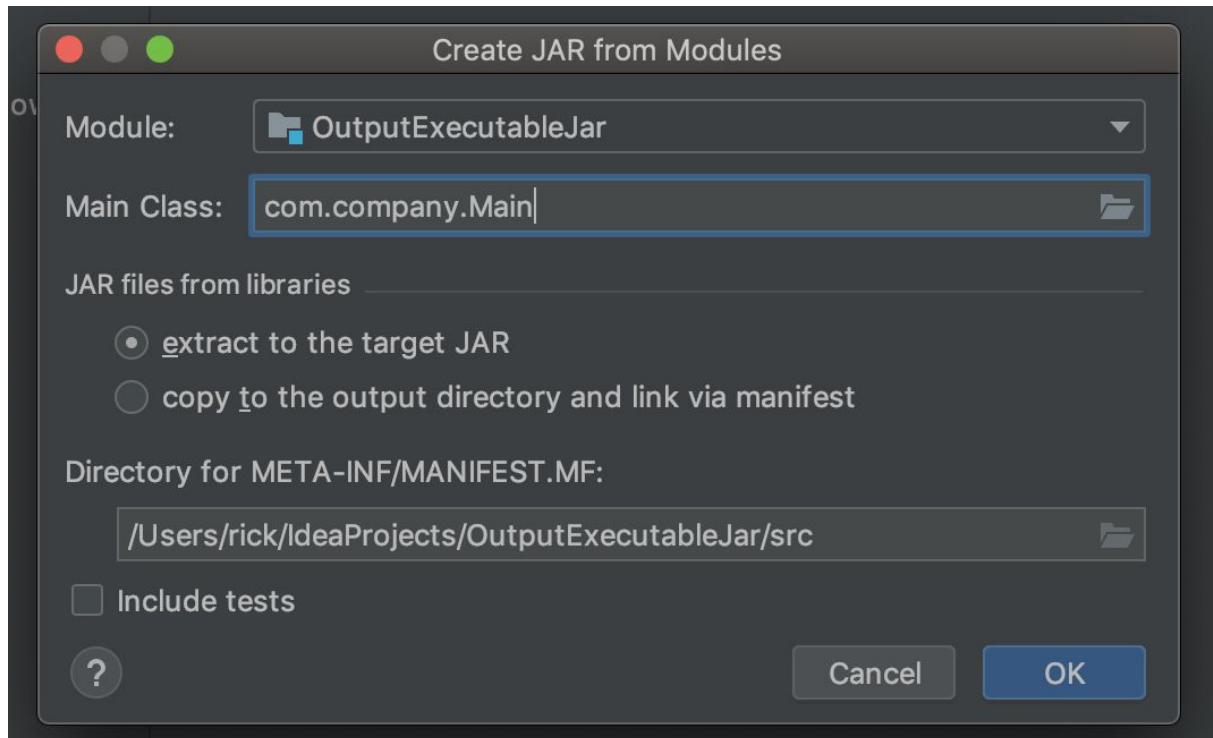- Select File->Project Structure
- Select Artifacts

- Select JAR
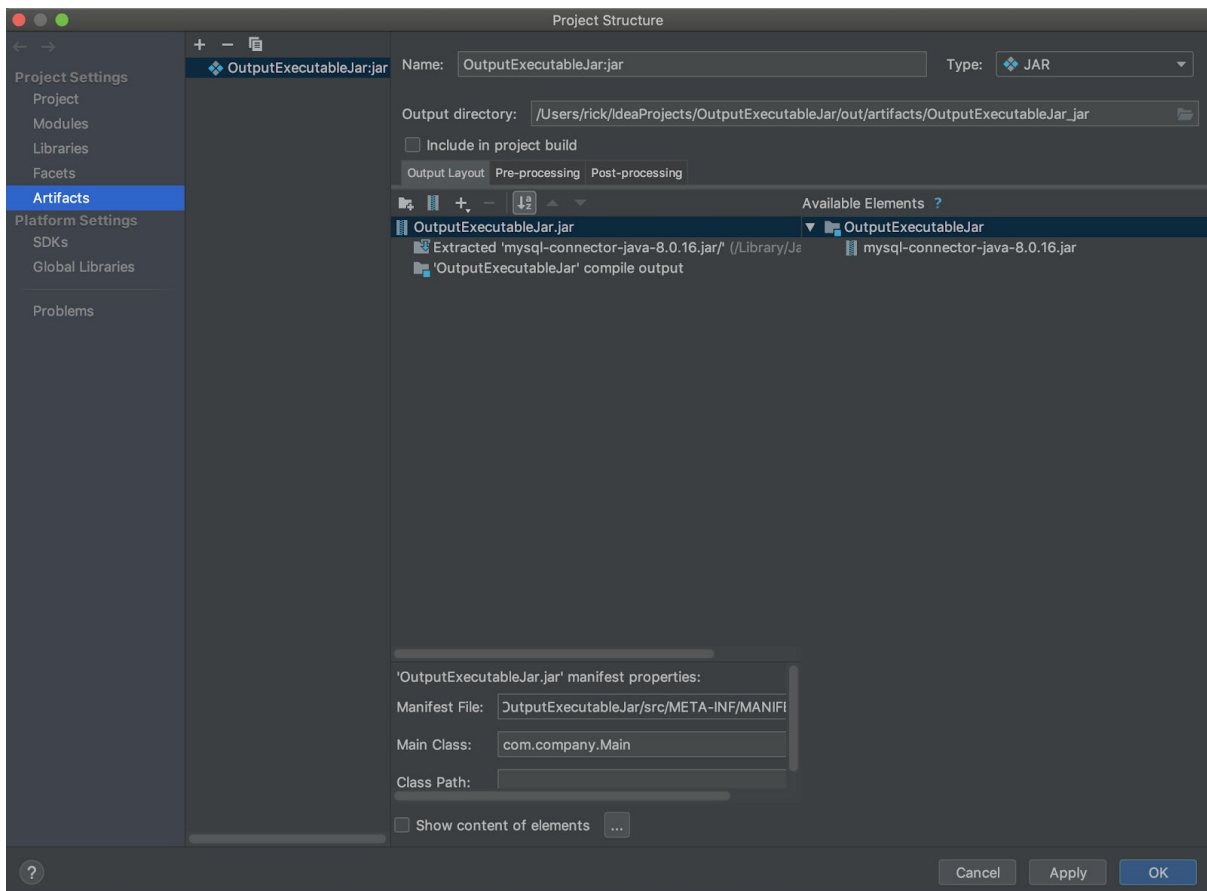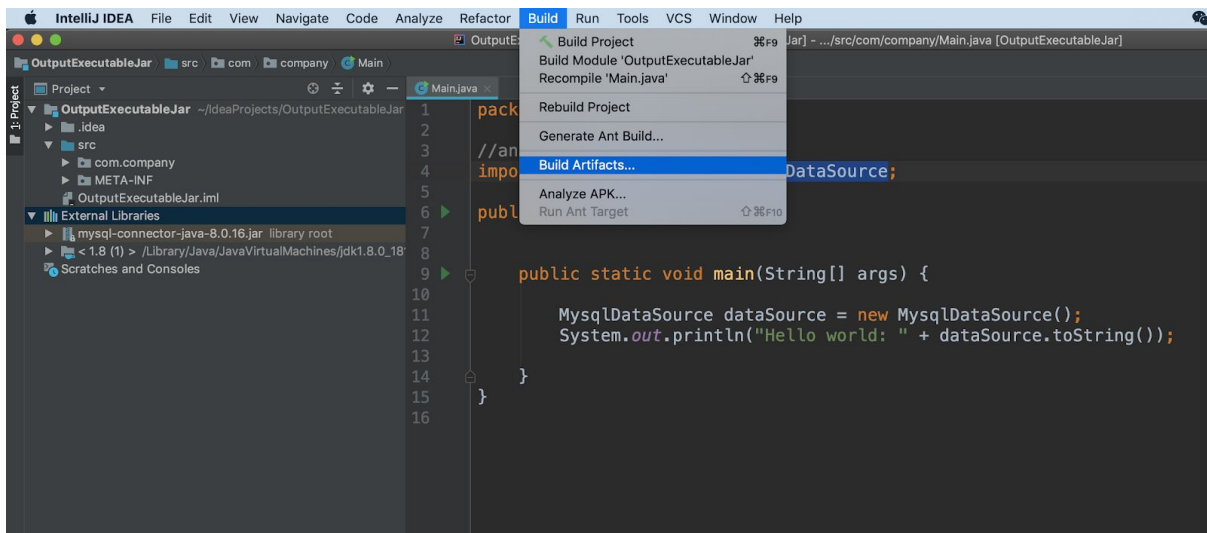- Select From modules with dependencies
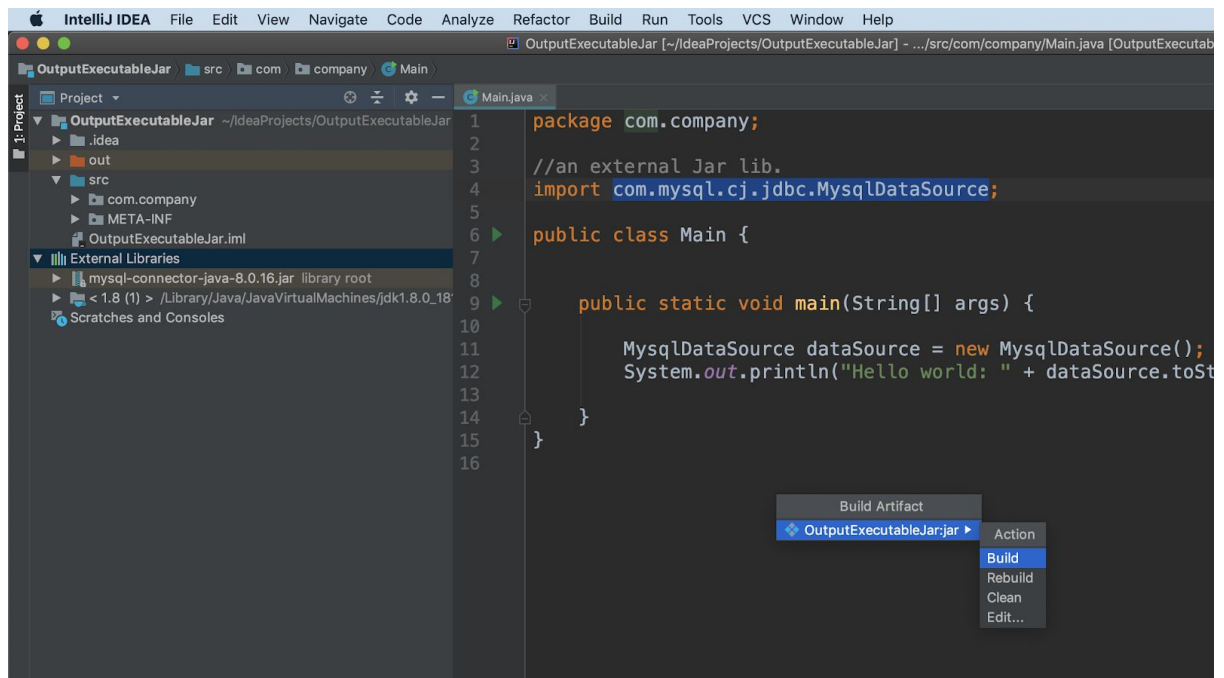

- Select Main Class. Click OK.

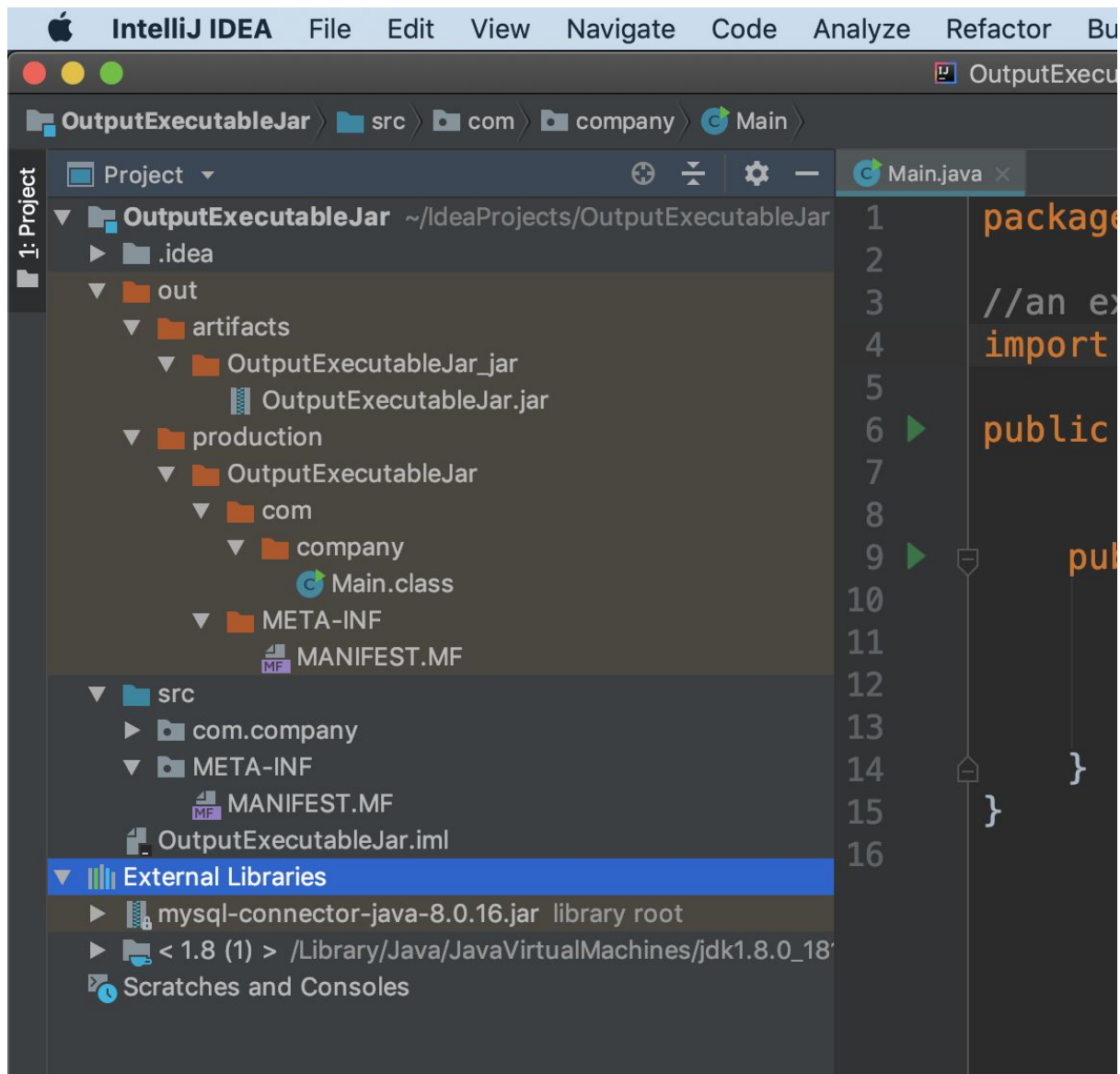● Click OK.

● Click OK.
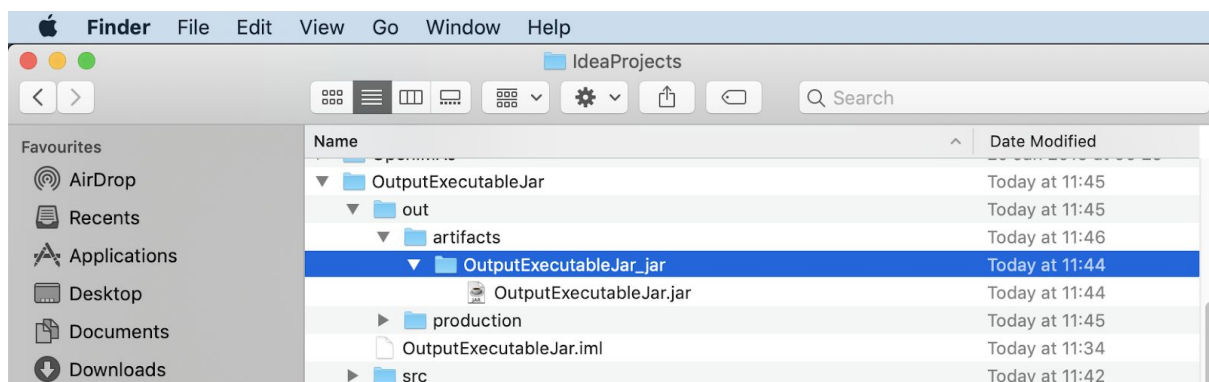
- Select Build Artifacts.
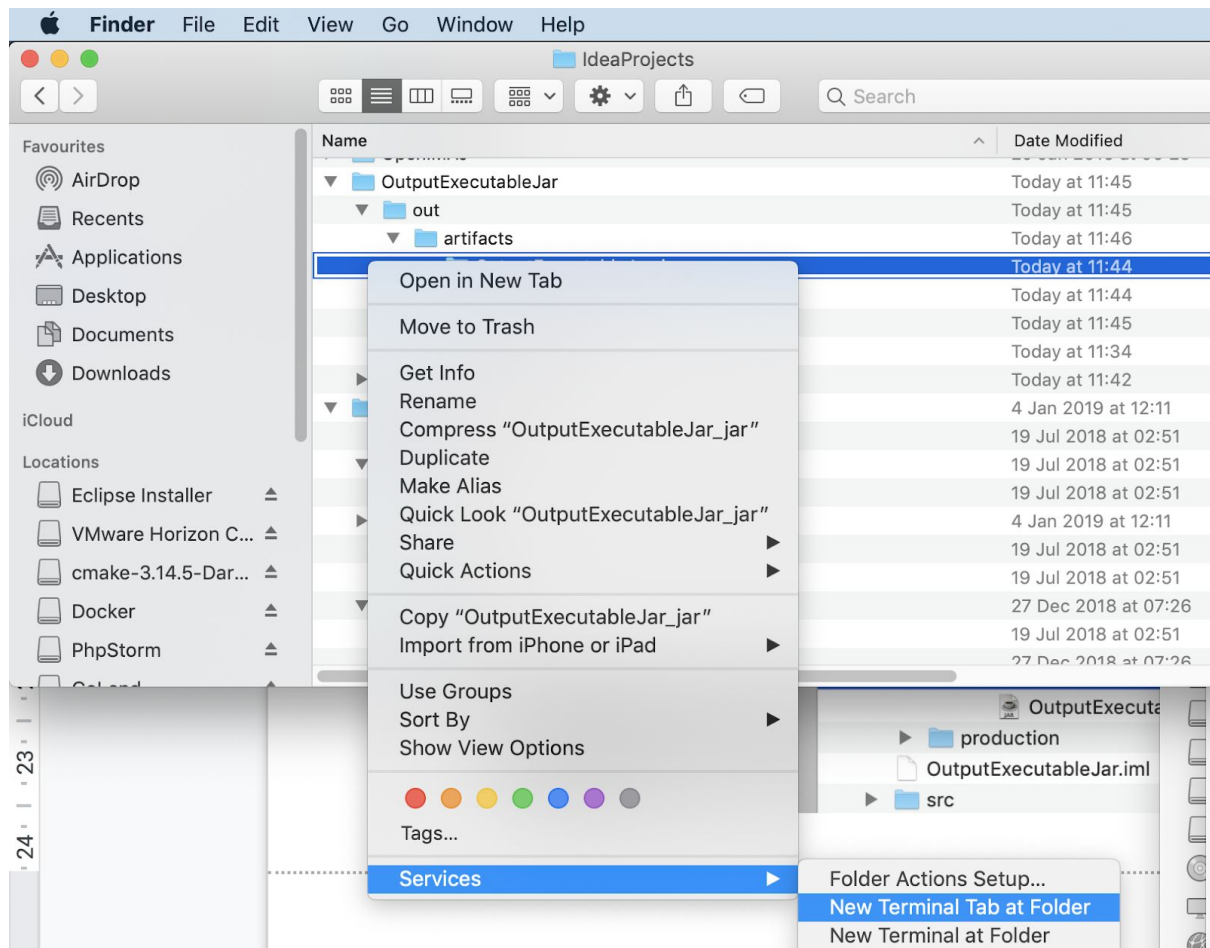

- Select Build.

- Files generated including Jar file.

5. Run executable Jar file

- Find the created Jar file.

- Go to the directory.

- Execute the command:
  java -jar OutputExecutableJar.jar