**To run compiled file**

C:\jlinkExamples\logger>java --module-path out\production --module logger.example/com.logger.example.TestLogger

**The dependent modules**

Let's use jdeps command to see the dependent modules:

C:\jlinkExamples\logger>jdeps --module-path out\production -s --module logger.example

logger.example -> com.another.messenger

logger.example -> java.base

logger.example -> java.logging

**Creating runtime image with jlink**

General jlink command:

jlink --module-path <module-path> --add-modules <comma-separated-module-names> --output <target-directory>

C:\jlinkExamples\logger>jlink --module-path Java\jdk-11\jmods;out\production --add-modules logger.example --output buildNoScript

jlink --module-path Java\jdk-11\jmods;out\production --add-modules logger.example,com.userMenue,com.mathOperations,com.another.messenger --output buildNoScript

In above command we also included java\jdk-11\jmods for --module-path, so that the required JDK modules (in our example: java.base and java.logging) can be resolved and included in the output image.

**Running application with generated image**

We can run our main class from bin folder as follows:

C:\jlinkExamples\logger\build\bin>java.exe --module logger.example/com.logger.example.TestLogger

**Using launcher option**

--launcher command=moduleName/mainClass option of jlink can be used to create a 'launcher script' to run our application:

C:\jlinkExamples\logger> jlink --launcher logger-app=logger.example/com.logger.example.TestLogger --module-path D:\java\jdk-11\jmods;out\production --add-modules logger.example,com.userMenue,com.mathOperations,com.another.messenger --output build

It created two launcher scripts test-app (for linux) and test-app.bat (for windows).

The content of logger-app.bat

@echo off

set JLINK\_VM\_OPTIONS=

set DIR=%~dp0

"%DIR%\java" %JLINK\_VM\_OPTIONS% -m logger.example/com.logger.example.TestLogger %\*

**Running the script:**

C:\jlinkExamples\logger\build\bin>logger-app.bat

**The following command lists the modules in the runtime image**

**C:\jlinkExamples\logger\build\bin>java --list-modules**

com.another.messenger

com.mathOperations

com.userMenue

java.base@11.0.2

java.logging@11.0.2

logger.example

**Building a Java Module JAR File**

C:\jlinkExamples\logger>jar -c --file=out-jar/logger.example.jar -C out/production/logger.example .

**Running a Java Module From a JAR With a Main Class Set**

java -jar out-jar/logger.jar