Contents

[Modulazation of the JDK under Project Jigsaw 2](#_Toc60234003)

[Create Project Single Module with Eclipse 3](#_Toc60234004)

[Multi Class in same Module 10](#_Toc60234005)

[One Project has Multi Module 11](#_Toc60234006)

[Summary 12](#_Toc60234007)

# Modulazation of the JDK under Project Jigsaw

Java Module System is a major change in Java 9 version. Java added this feature to collect java packages and code into a single unit called module. The verions earlier of java, there was no concept of module to create modular java applications, that why size of application increased and difficult to move around. Even JDK itself was too heavy in size.

That fixed situation, Java 9 restructured JDK into set of modules so that we can use only required for our project. Apart from JDK, java also allows us to create our own modules so that we can develop module based application.

The module system includes various tools and options that are given bellow:

Includes various to the java tools javac, jlink and java where can specify module paths that locates to the location of module

Modular Jar file is introduced. This Jar contains module-info.class file in its root folder.

JMOD format is introduced, which is a packaging format similar to jar except it can include native code and configuration files.

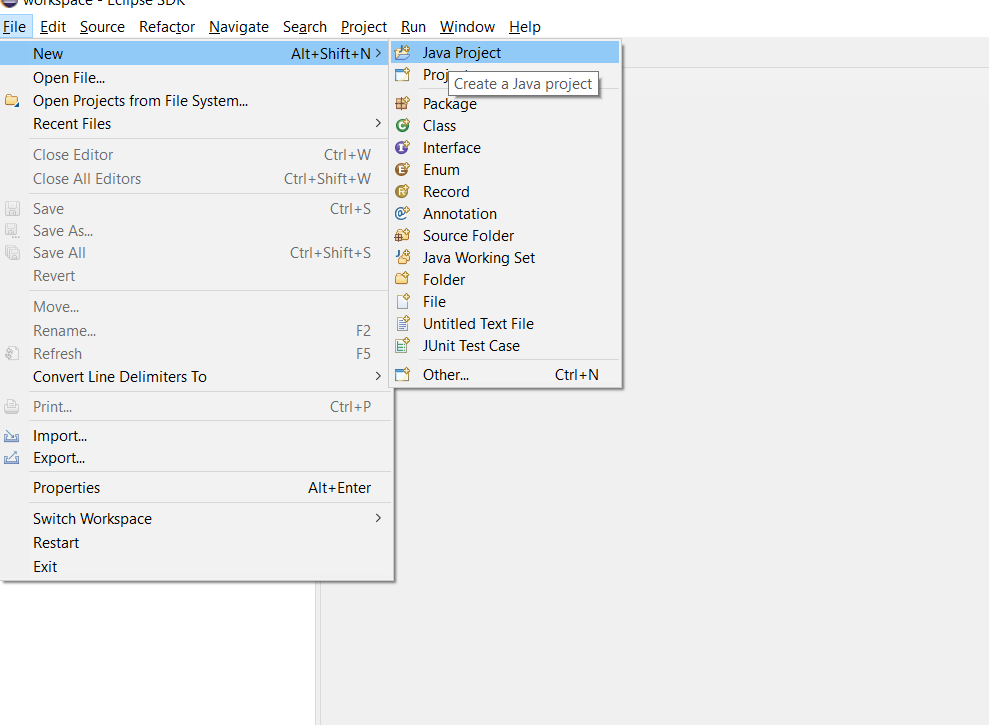
The Jdk and jre both are reconstructed to accommodate modules. It improves performance, security and maintainbality.

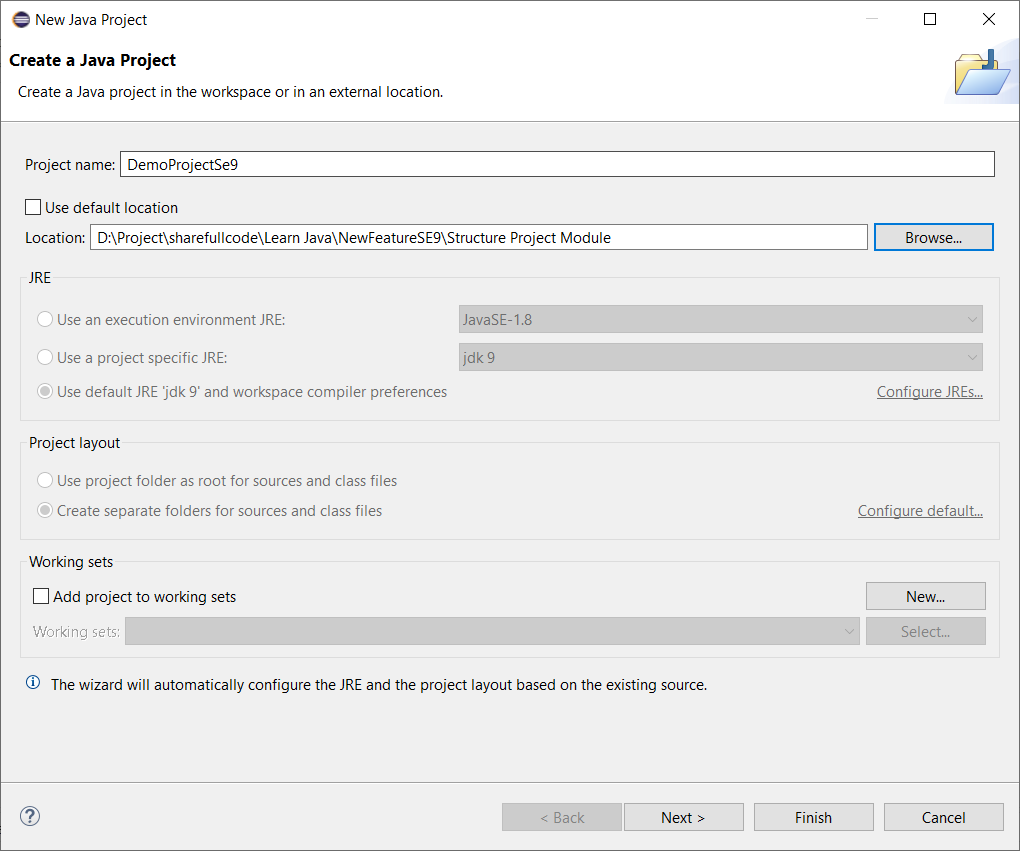
Java defined a new URI schema for naming modules, classes and resources.

Java 9 Module System has a “java.base” module. It’s known as Base Module. It’s an independent module and dose Not dependent on any other modules. By Default all other modules are dependent on “Java.base”.

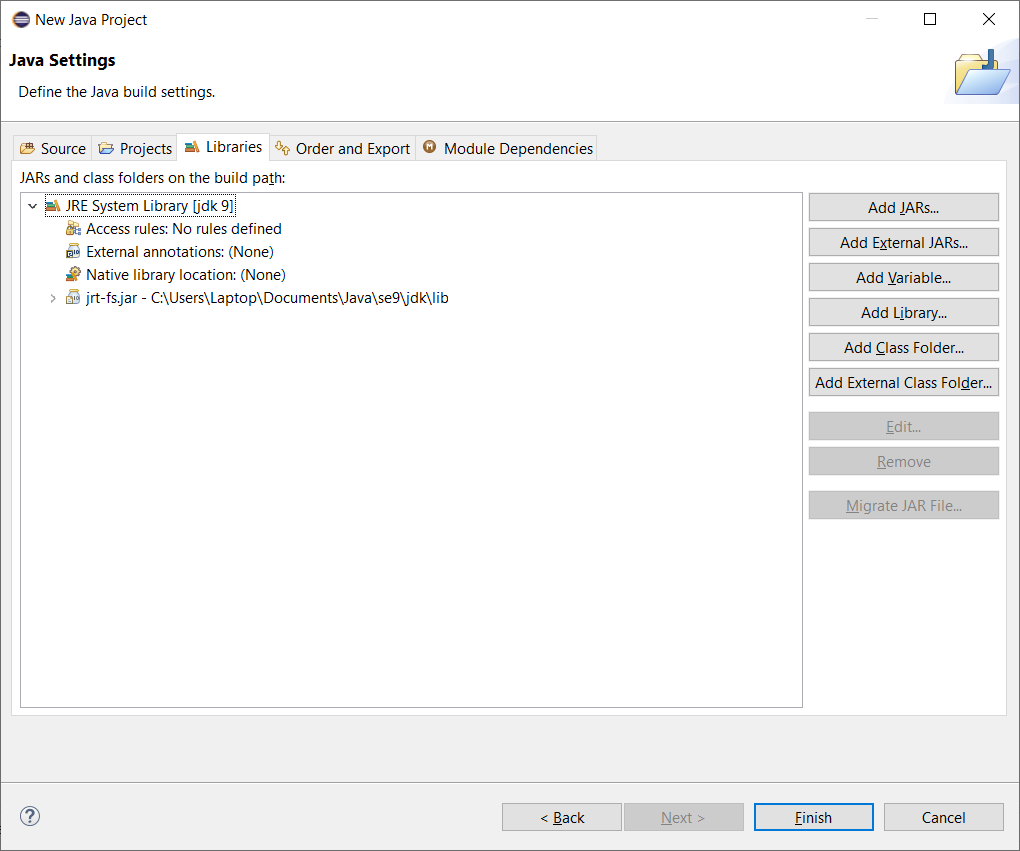
To use **a module**: include the **module jar** file into **modulepath** instead of the classPath. A **module jar** file added to **classPath** is **normal jar file** and module-info.class file will be ignored.

# Create Project Single Module with Eclipse

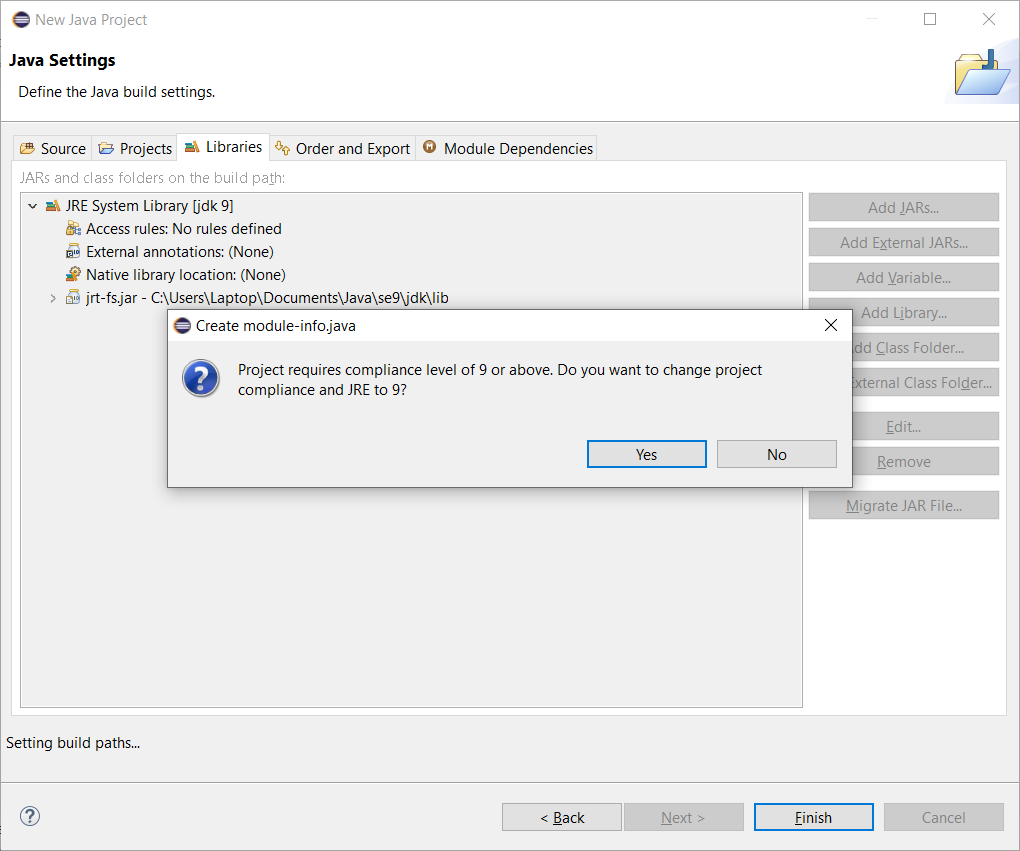




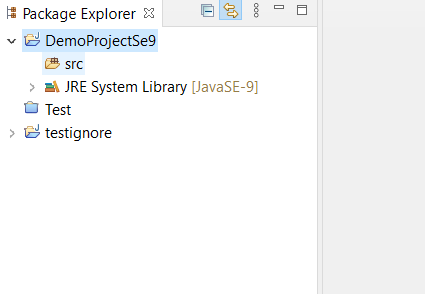
Next



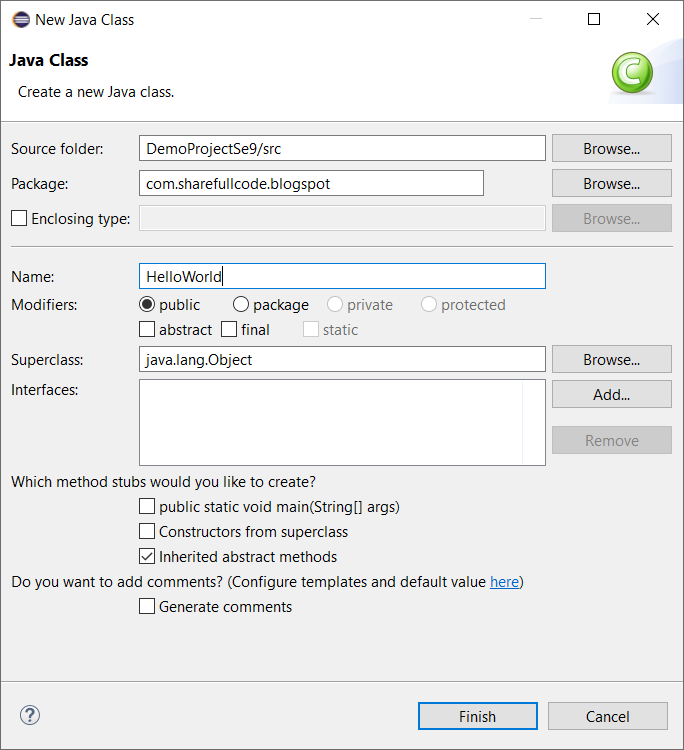
Choice Finish



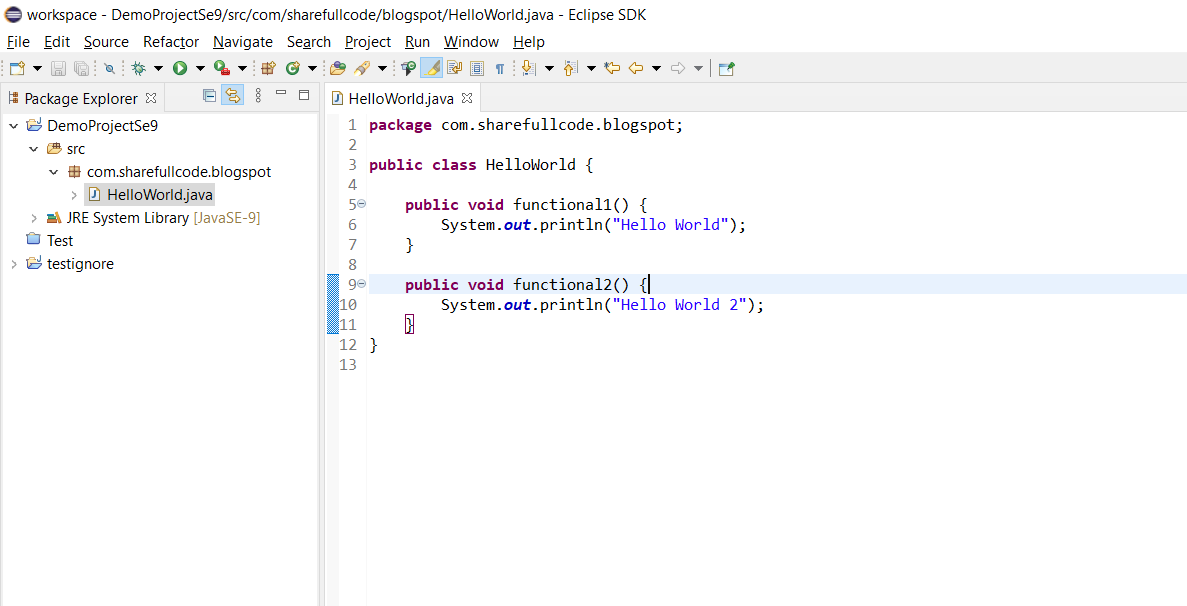
Choice Yes then Project created



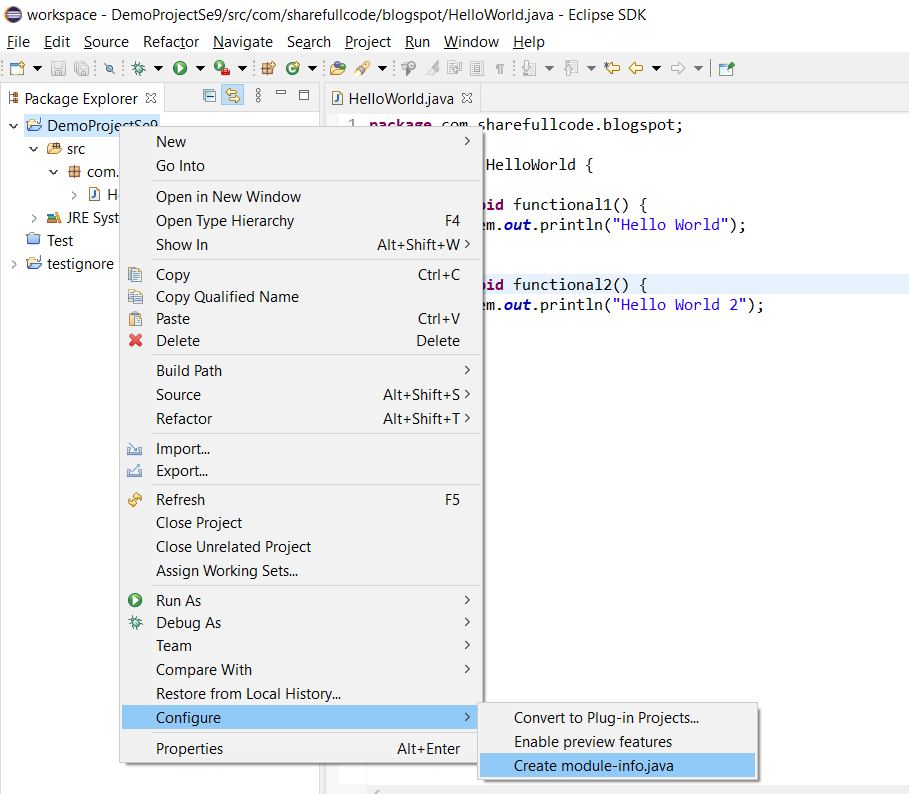
New a class HelloWorld With package com.sharefullcode.blogspot reserves domain

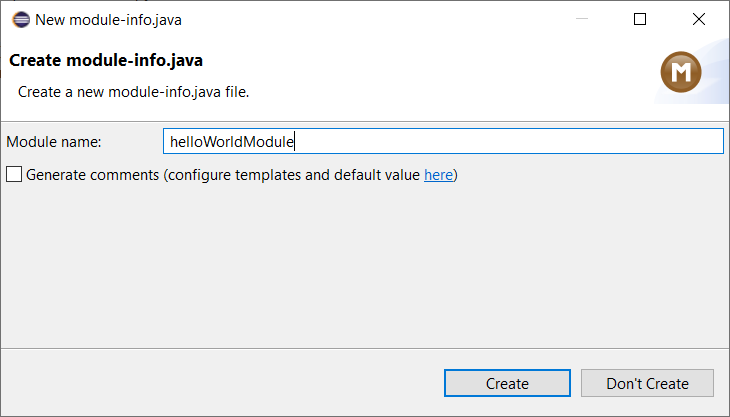


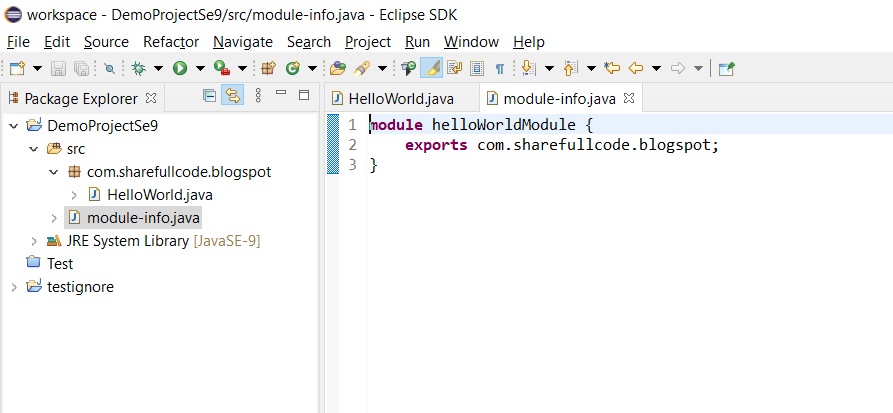
Create some functions



Create module-info.class from Config menu Click right mouse

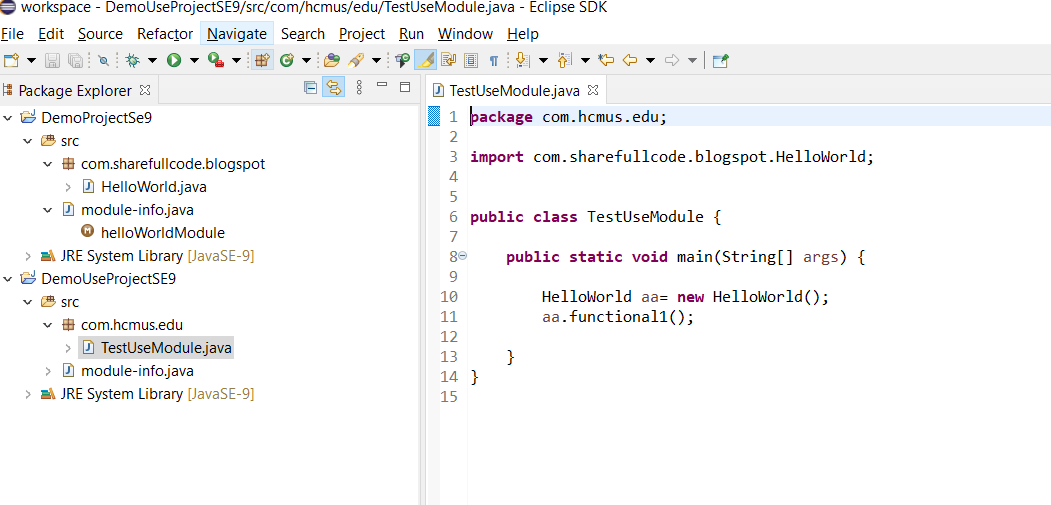


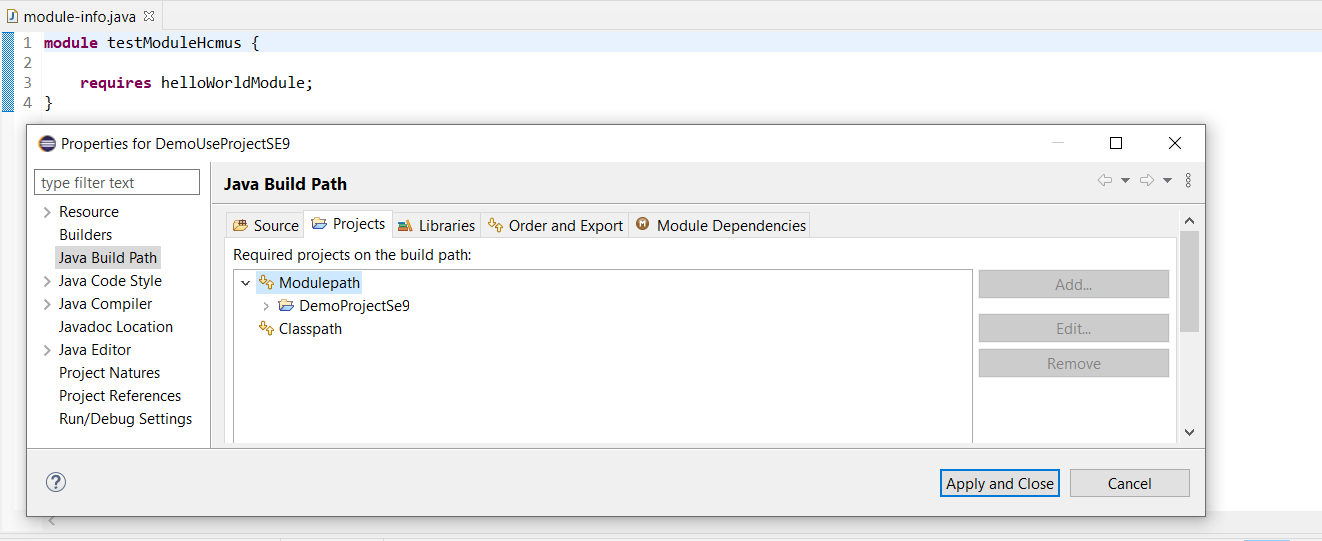




Now we create on Project Test use module of Project others

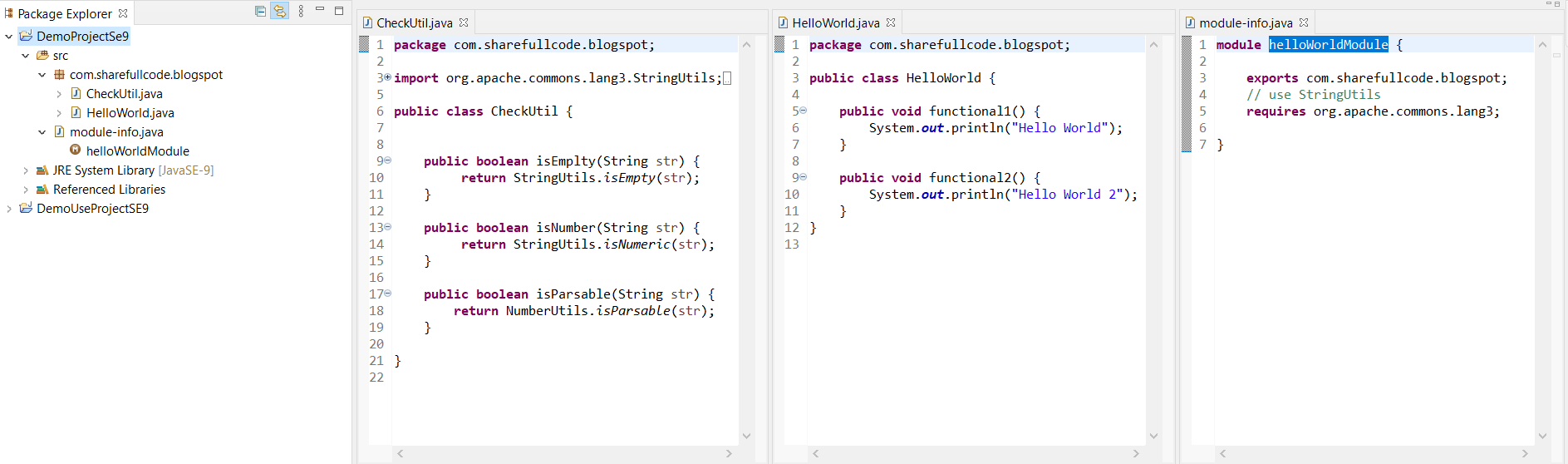
That use a module others , you must add require module in file module-infor.class and add modulePath example bellow:



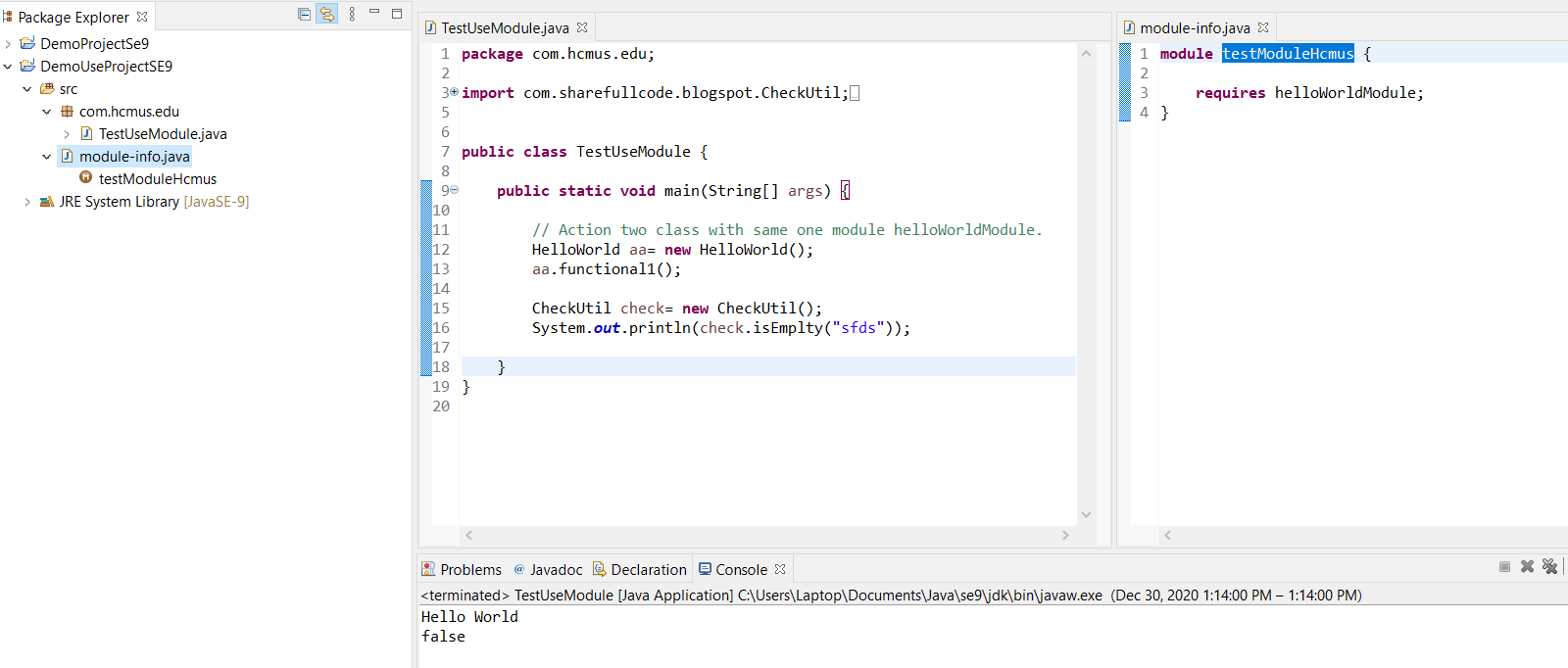


Run Success.

# Multi Class in same Module



Use it

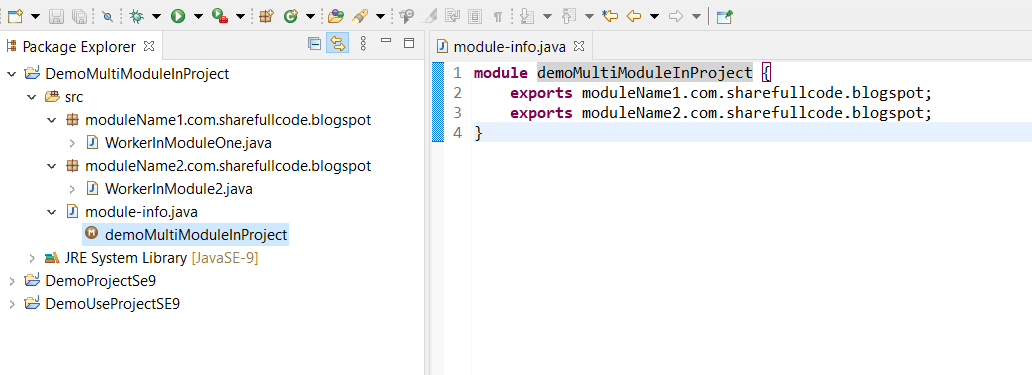


# One Project has Multi Module

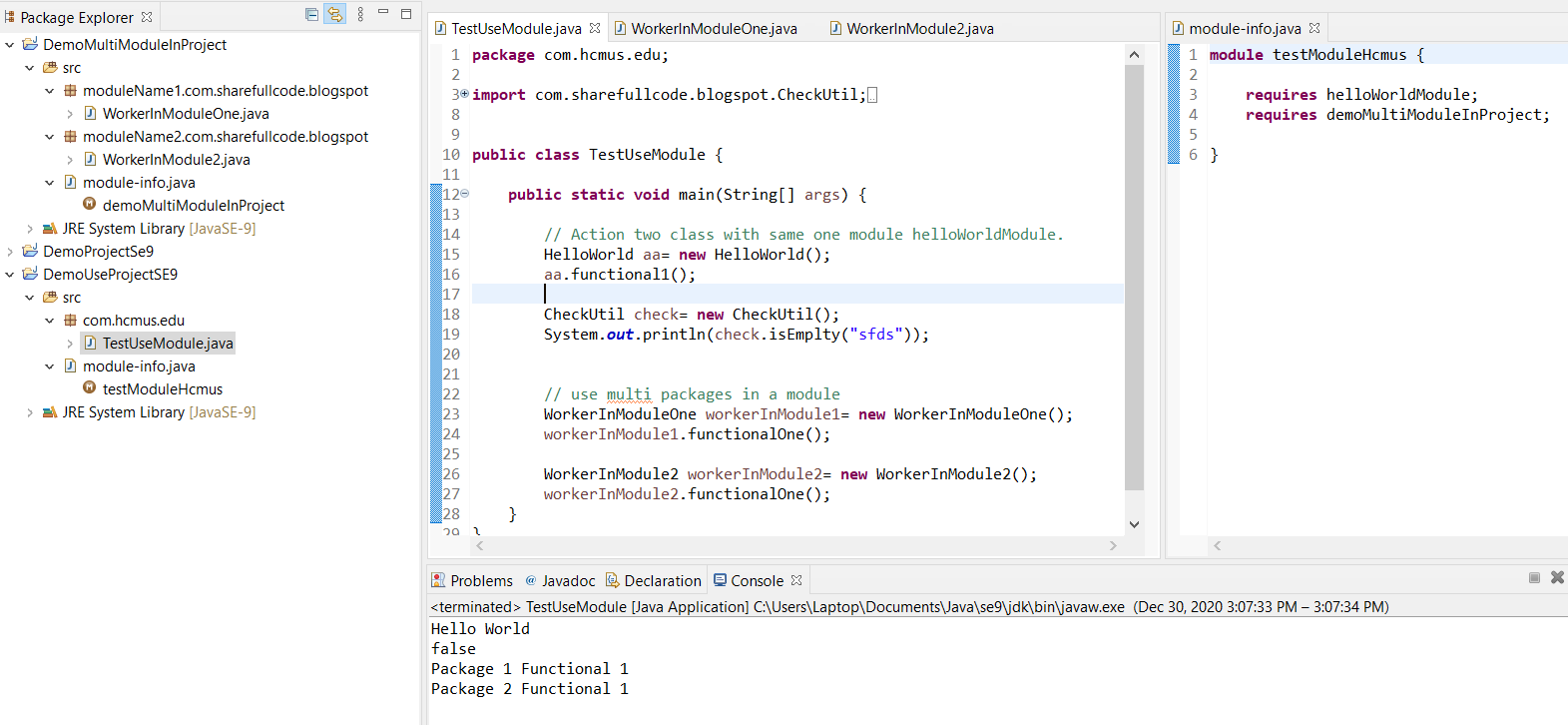
You can create with command but not create on IDE because not accpect you can refer here:

<https://www.logicbig.com/tutorials/core-java-tutorial/modules/multi-module-mode.html>

Project has multi packages on a module .



Use it



# Summary

You can create project with java 9 use modular structure use keywork **exports** the packages in module-info.class and That was used in the others projects by use keywork **requires**. Also use module jar similar a jar normal when you add classpath instead modulepath on project version se9 and later.

**This section is non commercial mainly sharing and advance knowlage for java.This tutorials has referenced document from the list below if you has complain for license, i will remove all from internet. Thank you all everything.**

<https://www.javatpoint.com/java-9-module-system>

https://howtodoinjava.com/java9/java-9-modules-tutorial/