

COMP2396B: Object-Oriented Programming and Java Tutorial 1: Getting Started with Eclipse

Mr. Marco Wong



- Installation Guide of Java SE Development Kit 15 (either 15.0.1 or 15.0.2 is fine)
- Installation Guide of Edipse
- Start Using Eclipse



Step 1) Go to:

https://www.oracle.com/java/technologies/javase-downloads.html

Step 2) Click "JDK Download"

Java SE Downloads

Java Platform, Standard Edition

Java SE 15

Java SE 15.0.1 is the latest release for the Java SE Platform

- Documentation
- Installation Instructions
- Release Notes
- Oracle License
 - Binary License
 - Documentation License
- Java SE Licensing Information User Manual
 - Includes Third Party Licenses
- · Certified System Configurations
- Readme



Installation Guide of Java SEDevelopment Kit 15

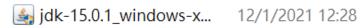
Step 3) Download "Java SEDevelopment Kit 15" according to your operating system.

ava SE Development Kit 15.0.1 his software is licensed under the Oracle Technology Network License Agreement for Oracle Java SE				
Product / File Description	File Size	Download		
Linux ARM 64 RPM Package	141.81 MB	jdk-15.0.1_linux-aarch64_bin.rpm		
Linux ARM 64 Compressed Archive	157.01 MB	jdk-15.0.1_linux-aarch64_bin.tar.gz		
Linux x64 Debian Package	154.79 MB	jdk-15.0.1_linux-x64_bin.deb		
Linux x64 RPM Package	162.02 MB	jdk-15.0.1_linux-x64_bin.rpm		
Linux x64 Compressed Archive	179.33 MB	jdk-15.0.1_linux-x64_bin.tar.gz		
macOS Installer	175.94 MB	jdk-15.0.1_osx-x64_bin.dmg		
macOS Compressed Archive	176.53 MB	jdk-15.0.1_osx-x64_bin.tar.gz		
Windows x64 Installer	159.69 MB	jdk-15.0.1_windows-x64_bin.exe		
Windows x64 Compressed Archive	179.27 MB	jdk-15.0.1_windows-x64_bin.zip		



Step 4) Double Click the **Executable File**.

Note: The one which is shown below is Windows 64 bit operating system and the following slides show the process of installation on Windows 64 bit OS.



應用程式

163,528 KB

Installation Guide of Java SEDevelopment Kit 15

Step 5) The Setup Wizard Window will pop-up. Click "Next >".



Installation Guide of Java SEDevelopment Kit 15

Step 6) Click "Next >" again. The installation process will start.
 After the installation is completed, click close.





- Please feel free to use ANY IDE (Integrated Development Environment) to code a Java Program.
 - ➤ NetBeans
 - > Eclipse
 - ➤ IntelliJ IDEACommunity Edition
 - > BlueJ
 - > DrJava
 - > Others.....
- For demonstration, Eclipse is adopted in Tutorials.
 - > The current version is: "2020-12 R"

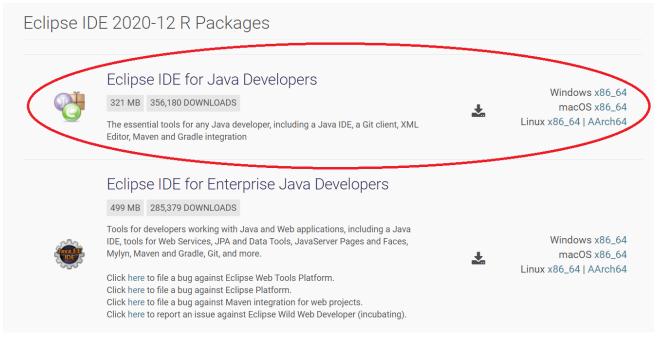




- Step 1) Go to https://www.eclipse.org/downloads/packages/
- Step 2) Locate the section "Eclipse IDE for Java Developers".

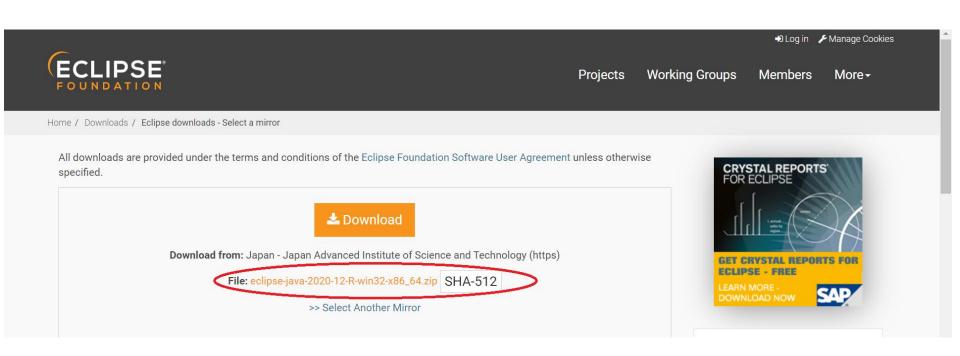
Step 3) Download Edipse according to your operating

system.



Installation Guide of Eclipse

Step 4) Click the link "eclipse-java-2020-12-R-win32-x86_64.zip" to start downloading Eclipse. The demonstration here is Windows 64 bit operating system.





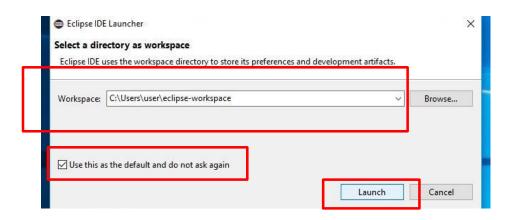
- Step 5) After downloading Eclipse, please unzip the zipped file.
- Step 6) Double Click "eclipse.exe".

configuration	12/1/2021 13:14	檔案資料夾	
dropins	10/12/2020 11:27	檔案資料夾	
features	12/1/2021 13:14	檔案資料夾	
№ p2	12/1/2021 13:09	檔案資料夾	
plugins	12/1/2021 13:12	檔案資料夾	
📜 readme	12/1/2021 13:14	檔案資料夾	
.eclipseproduct	12/1/2021 13:09	ECLIPSEPRODUCT	1 KB
artifacts	12/1/2021 13:09	XML Document	116 KB
eclipse	12/1/2021 13:09	應用程式	417 KB
🚮 eclipse	12/1/2021 13:09	組態設定	1 KB
eclipsec	12/1/2021 13:09	應用程式	129 KB

Installation Guide of Eclipse

- Step 7) A window will pop-up with asking you to "Select a directory as Workspace" which all the Java Projects / Source Code Files will be stored in that location.
- Step 8) Check the checkbox of "Use this as the default and do not ask again". Then Click "Launch".



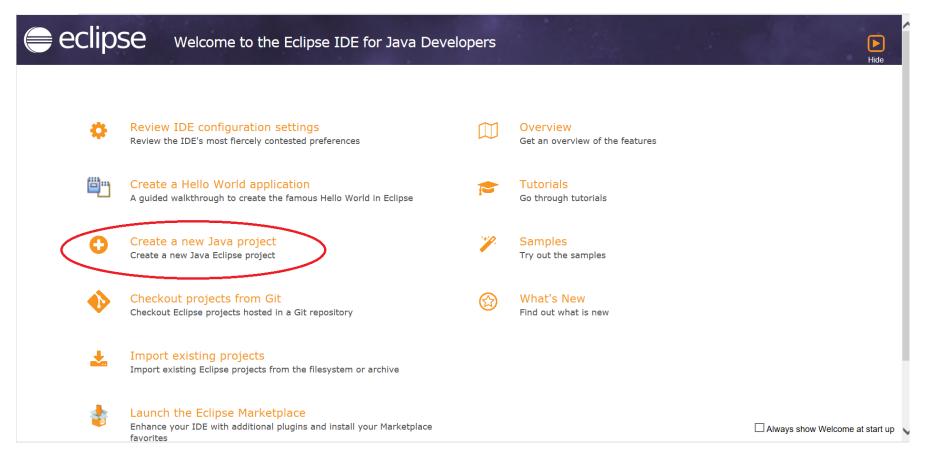




- We have installed the required softwares for learning and coding in this course.
 - ➤ Java SEDevelopment Kit 15
 - > Eclipse 2020-12 (IDE)
- Now, we are going to learn how to use Eclipse.
 - 1. Creating a new Java Project to start coding
 - 2. Shortcut keys to facilitate your coding
 - 3. Importing a current Java Project into Workspace
 - 4. Importing a Java Source Code File into Workspace

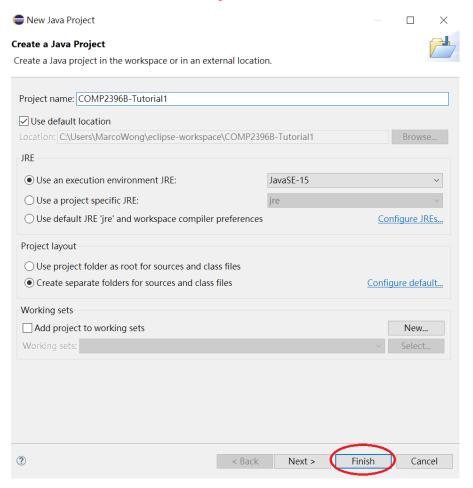


- Creating a new Java Project to start coding
- Step 1) Click Create a new Java project.

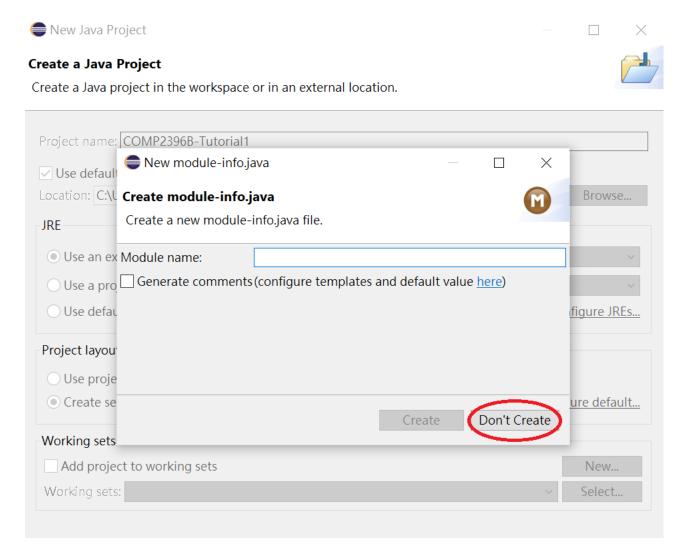




- Creating a new Java Project to start coding
- Step 2) Input "COMP2396B-Tutorial1" as Project Name.
- Step 3) Then Click "Finish".

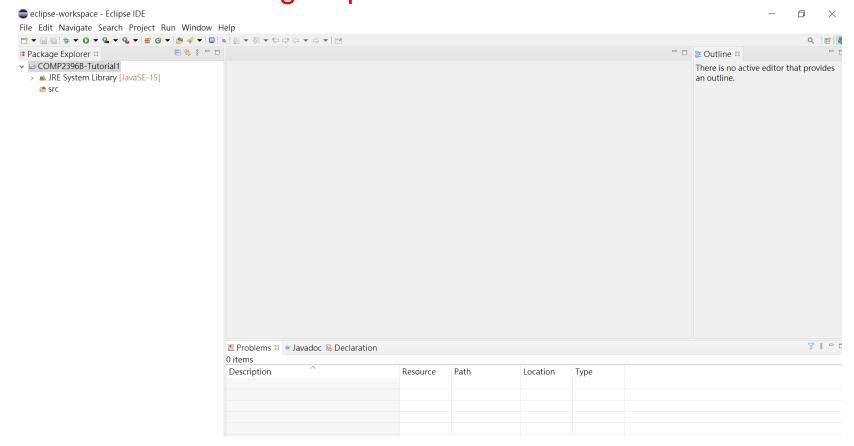


Step 4) Click Don't create in the following windows



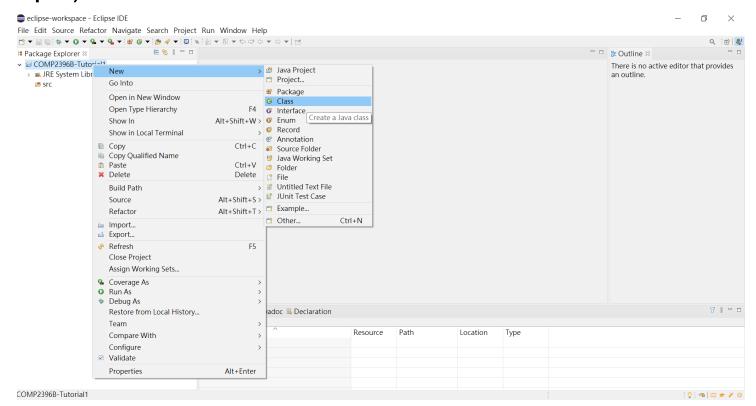


- Creating a new Java Project to start coding
- Step 5) Afolder called "COMP2396B-Tutorial1" is created which can be found from Package Explorer.





- Creating a new Java Project to start coding
- Step 6) Right-Click the folder "COMP2396B-Tutorial1".
- Step 7) Move the mouse cursor onto the option "New".
- Step 8) Select "Class".



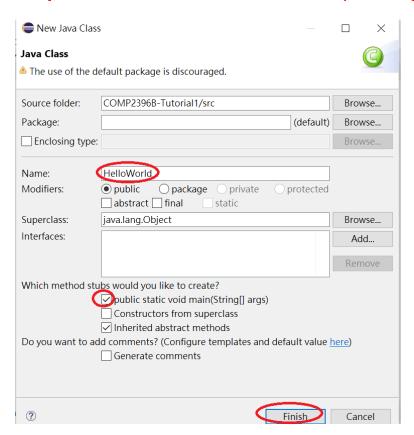


- Creating a new Java Project to start coding
- Step 9) Type "HelloWorld" as Class Name.

Step 10) Check the checkbox of "public static void main(String[]

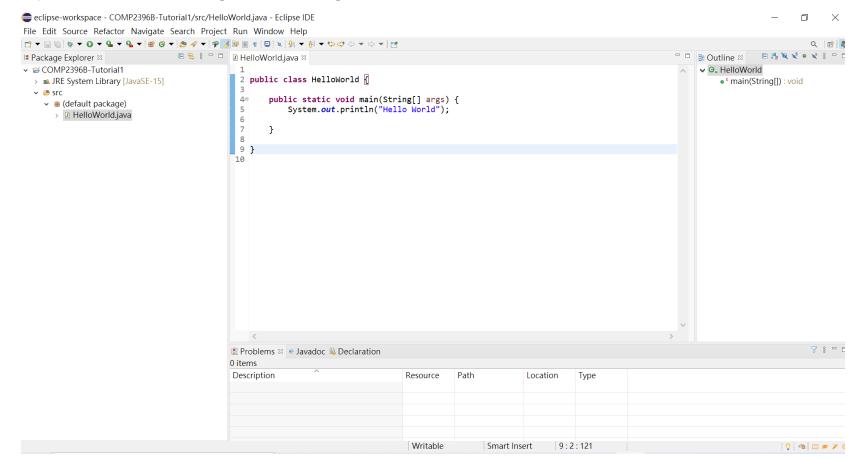
args)".

Step 11) Then Click "Finish".



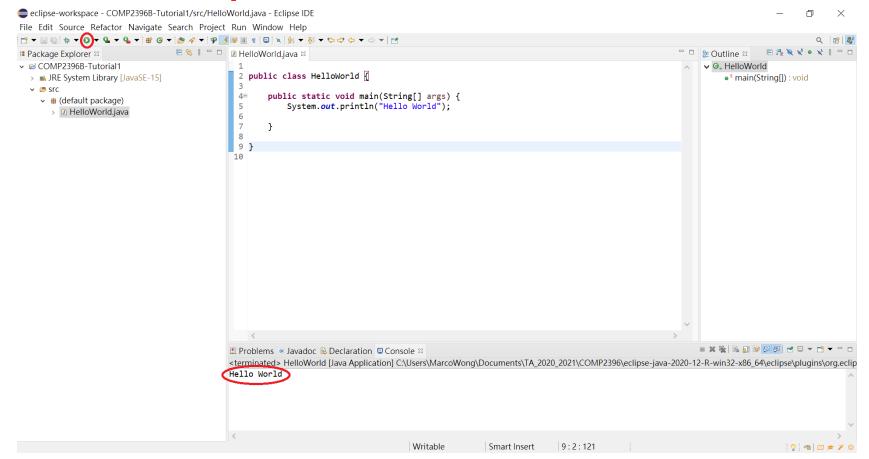


- Creating a new Java Project to start coding
- Step 12) A Java Source Code File "HelloWorld.java" is created. Try to type some programming statements in the main method.

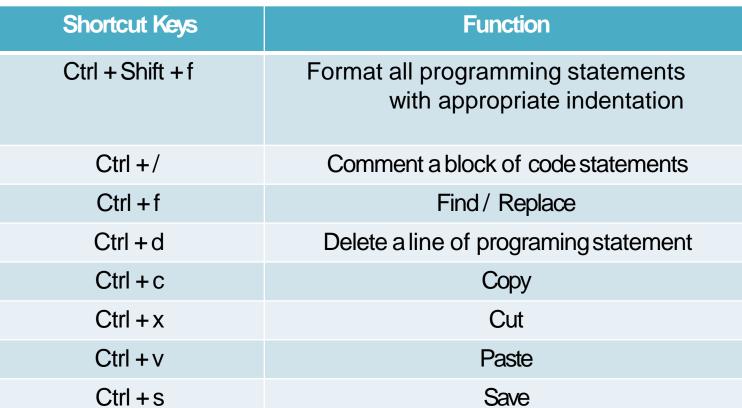


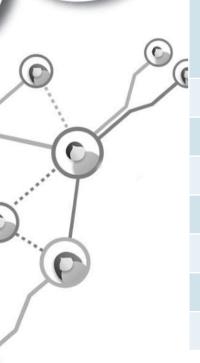


- Creating a new Java Project to start coding
- Step 13) Run the HelloWorld.java by clicking the PLAYbutton. You can find the output in Console tab.



Shortcut keys to facilitate your coding



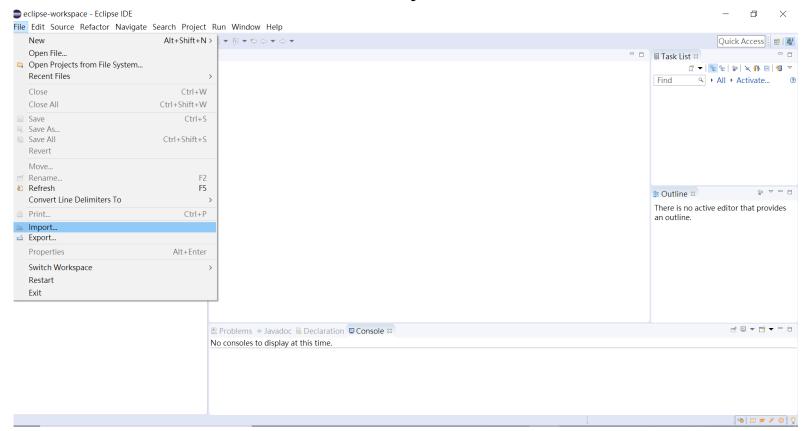




- Importing a current Java Project into Workspace

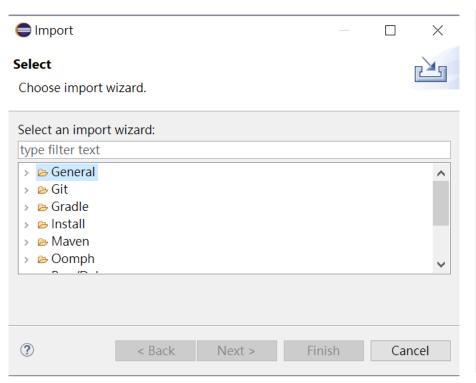
Step 1) Select File, then select Import...

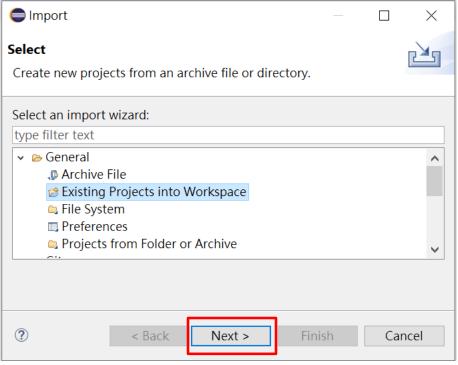
A zip file called "COMP2396A_import" is uploaded to Moodle, you can download it for try.





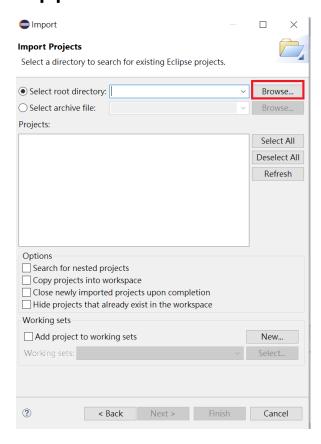
- Importing a current Java Project into Workspace
- Step 2) Unzip the downloaded file.
- Step 3) An import wizard window will pop up. Expand "General".
- Step 4) Select "Existing Projects into Workspace". The Click "Next >".

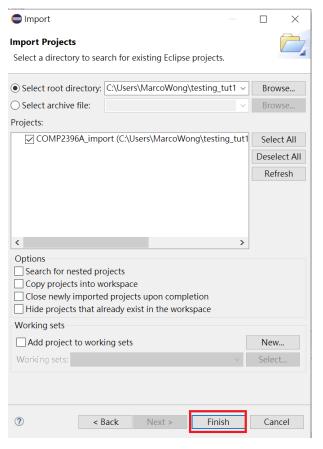






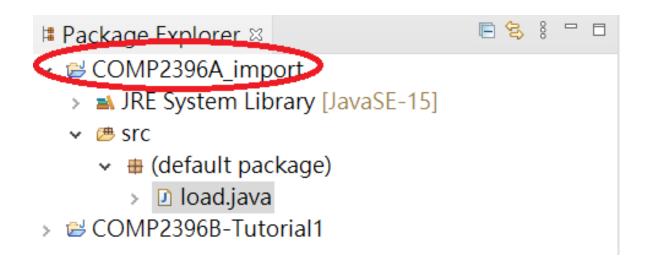
- Importing a current Java Project into Workspace
- Step 5) Click "Browse..." to select the path where your Java Project is unzipped. Click "Finish".





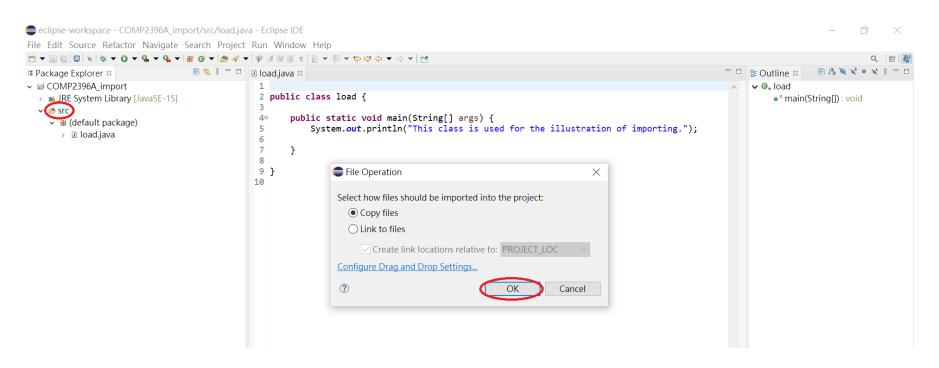
Start Using Eclipse

- Importing a current Java Project into Workspace
- You will find the selected Java Project is in Workspace now.



Start Using Eclipse

- Importing a Java Source Code File into Workspace
- If you want to import a Java Source Code File, you can drag and drop it into any existing Java Project.
 - > Important: Put them under the "src" folder with default package.





The Java Source Code File "Hello.java" is imported.

```
eclipse-workspace - COMP2396A import/src/load.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
E 🕏 🖁 🗀 🗈 load.java 🖂
E Outline ≅

→ B COMP2396A import

                                       2 public class load {
 → Mark System Library [JavaSE-15]
                                                                                                                                § main(String[]): void
                                             public static void main(String[] args) {
   # (default package)
                                                System.out.println("This class is used for the illustration of importing.");
     Hello.java
     > D load.java
                                       8
                                       9 }
```



This tutorial is modified from COMP2396A: Object-Oriented Programming and Java
Tutorial 1: Getting Started with Eclipse by Mr. Justin Yum