Java & Eclipse Installation Guide

[ITP20003] Java Programming

Steps

- Installing JDK

  –Software development tools that allows to develop applications with Java Language.

- Environment Variable Settings

  – Settings for Java to run on system.

- Installing Eclipse

  – IDE which provides an integrated environment for developers to develop things easy.

- Hello World Example

  – Learn how to use Eclipse.

Installing JDK

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

Linux   **macOS**   **Windows**

M1 or M2 chips

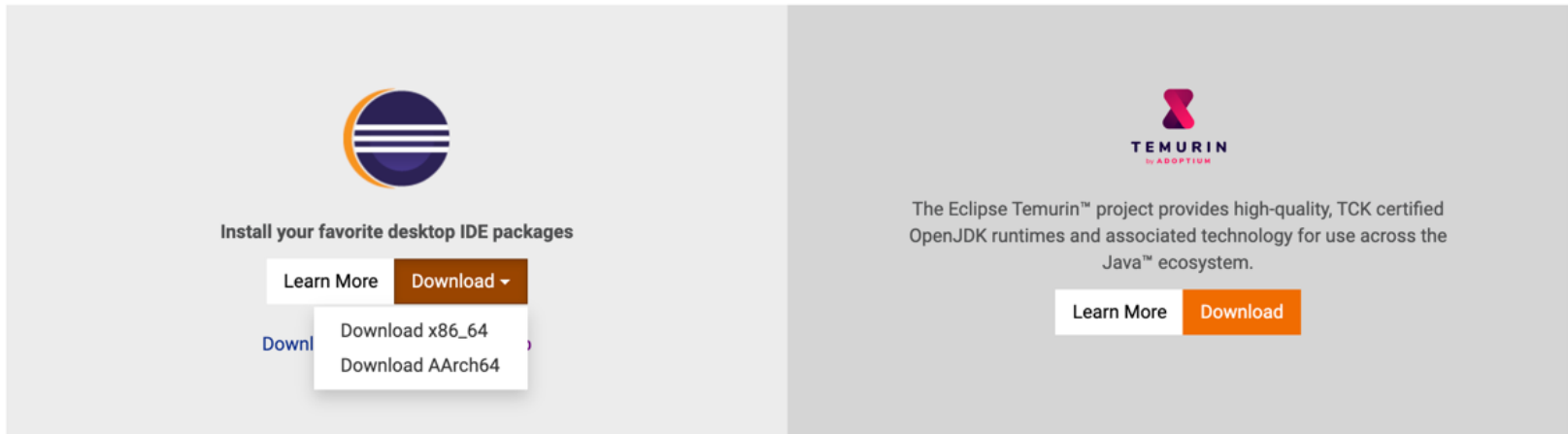| Product/file description	File size	Download
ARM64 Compressed Archive	182.11 MB	https://download.oracle.com/java/21/latest/jdk-21_macos-aarch64_bin.tar.gz (sha256)
ARM64 DMG Installer	181.42 MB	https://download.oracle.com/java/21/latest/jdk-21_macos-aarch64_bin.dmg (sha256)
x64 Compressed Archive	184.35 MB	https://download.oracle.com/java/21/latest/jdk-21_macos-x64_bin.tar.gz (sha256)
x64 DMG Installer	183.67 MB	https://download.oracle.com/java/21/latest/jdk-21_macos-x64_bin.dmg (sha256)

Intel chips
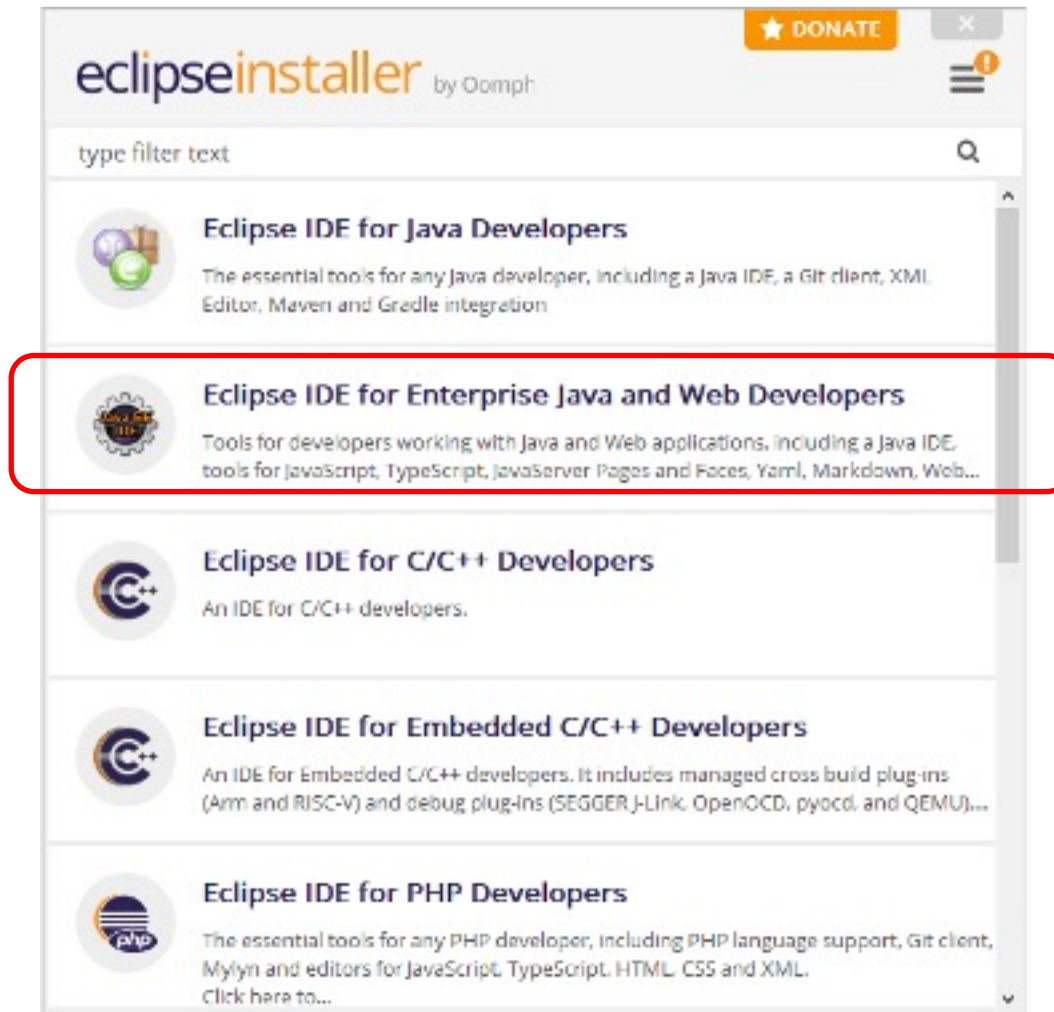
check

- java -version

```
henry@Henry2023MacBookPro ~ % java -version
java version "21.0.2" 2024-01-16 LTS
Java(TM) SE Runtime Environment (build 21.0.2+13-LTS-58)
Java HotSpot(TM) 64-Bit Server VM (build 21.0.2+13-LTS-58, mixed mode, sharing)
henry@Henry2023MacBookPro ~ % javac -version
javac 21.0.2
henry@Henry2023MacBookPro ~ %
```
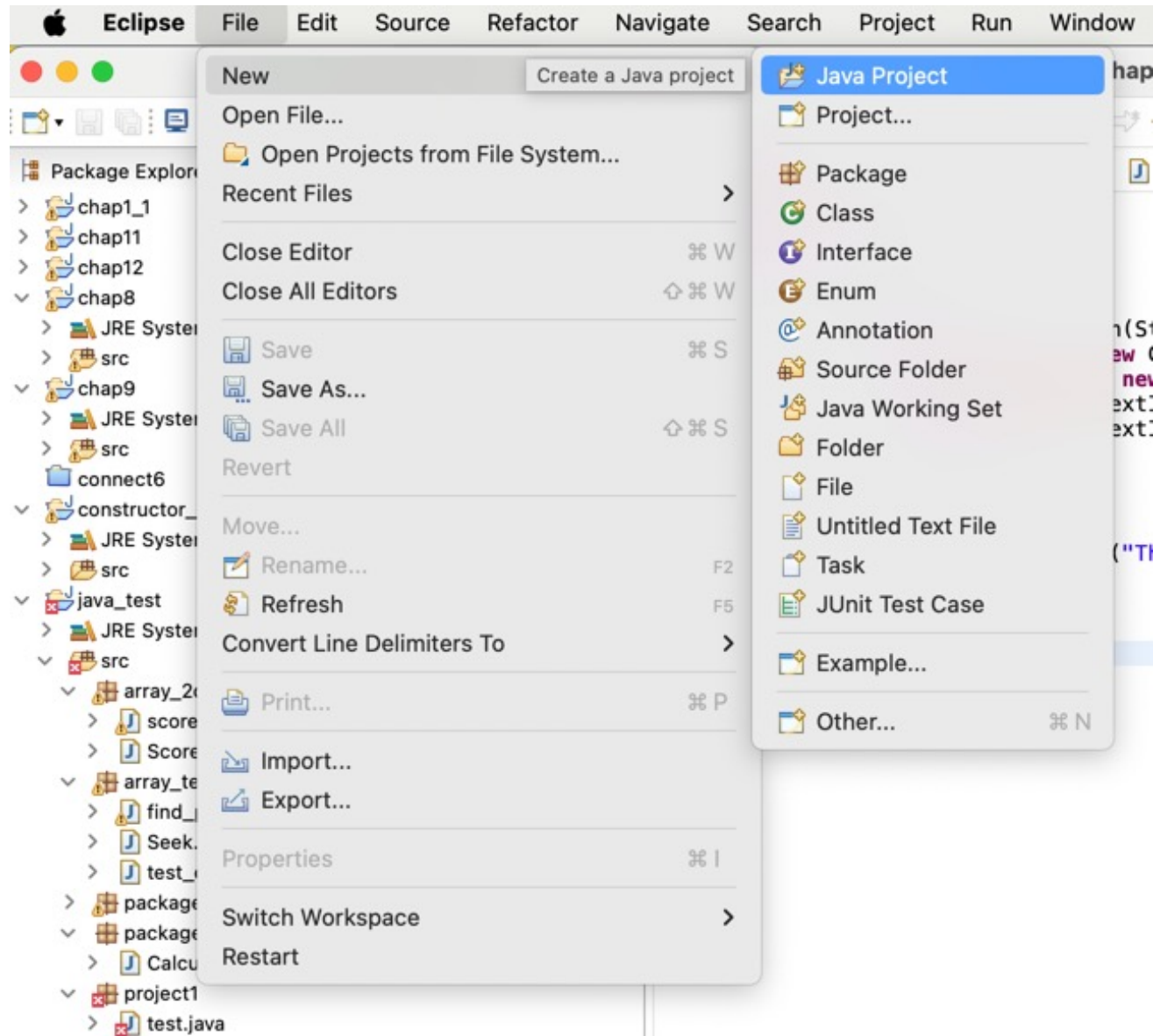
Installing Eclipse

- https://www.eclipse.org/downloads/

Installing Eclipse

Hello World!

Hello World!

Hello World!

- src -> New -> class
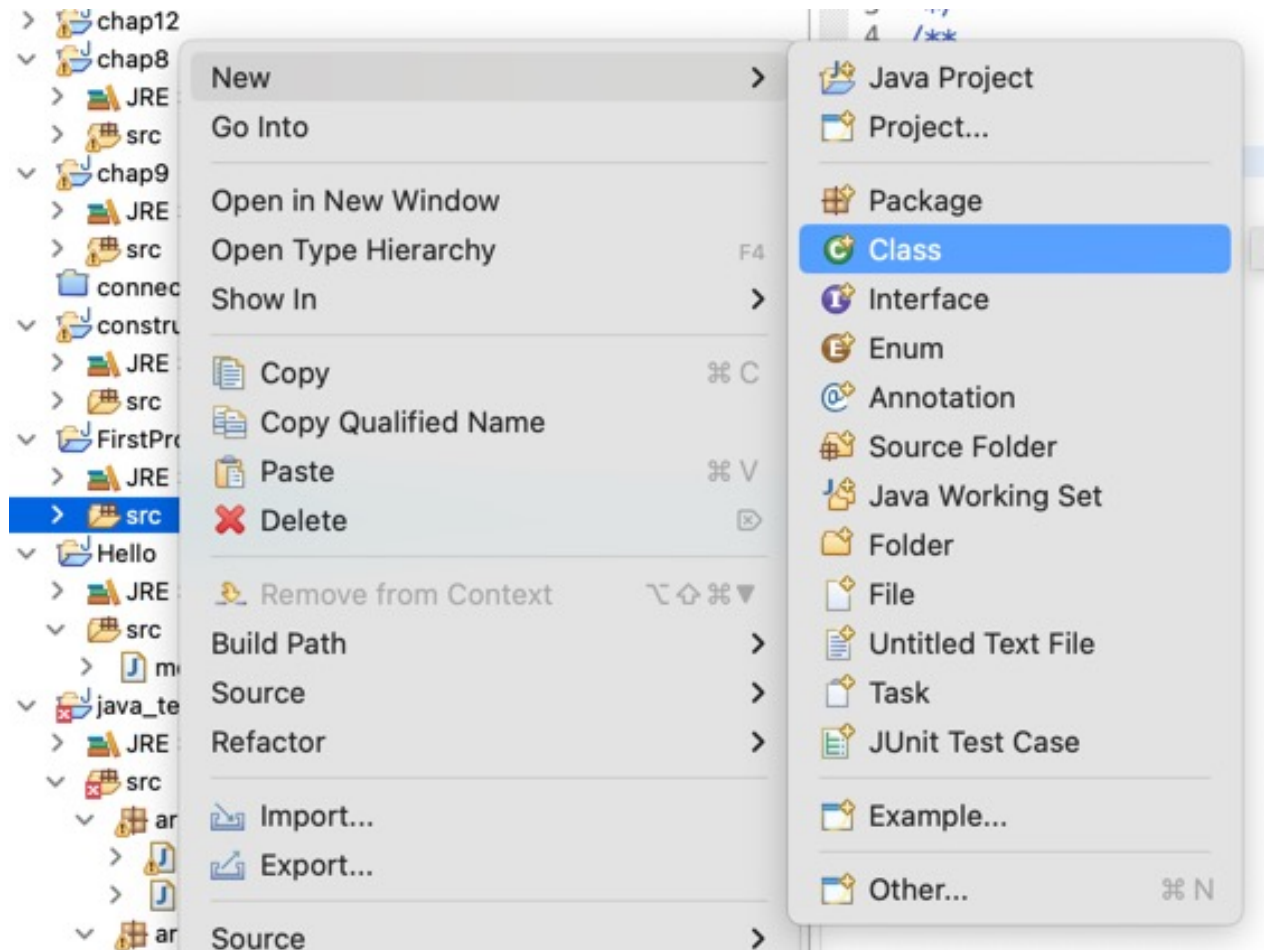
Hello World!

- Class Name

Hello World!

- coding

```
HelloHGU.java ✕
1  package FirstProject;
2
3  public class HelloHGU {
4⊝     public static void main(String[] args) {
5
6          System.out.println("Hello HGU!");
7      }
8  }
```

```
Problems  @ Javadoc  Declaration  Console  Console
<terminated> HelloHGU (1) [Java Application] /Library/Java/JavaVirtualMachines/jdk-21.jdk/Contents/
Hello HGU!
```