

# Java

— 1

Eclipse

: JDK · Eclipse · Java

1.

Java

JDK(Java Development Kit)

Eclipse IDE

Eclipse

Hello, World!

## 2. Java JDK(Java Development Kit)

### 2.1 Java ?

Java 1995 Sun Microsystems( Oracle)가 'Write Once, Run Anywhere( , )'

### 2.2 Java — JVM

Java

: javac 가 .java .class( )

: JVM(Java Virtual Machine) OS

## 2.3 JDK

JDK (Java Development Kit) Java . JDK  
Java 가.

## 2.4 JDK

JDK 17 (LTS) —

Oracle JDK Eclipse Temurin (OpenJDK) 가

JDK :

## 3. Eclipse IDE

### 3.1 Eclipse ?

Eclipse Java 가 (IDE, Integrated Development  
Environment). 가 .

### 3.2 — 가

### 3.3 A — Eclipse Installer JDK ( )

Eclipse Installer가 JDK JDK .

<https://www.eclipse.org/downloads/> [Download x86\_64]

eclipse - inst - jre - win64.exe (Windows )

Installer 'Eclipse IDE for Java Developers'

JDK

JDK

'Java 17+ VM'

JDK가

( : JDK 21 — Eclipse Adoptium)

[INSTALL]

: C:\Users\ \eclipse\jee - 2024 - 12 ( )

. ( )

[LAUNCH]

Workspace

Eclipse

3.4

B — JDK

Eclipse

( )

JDK

Eclipse

java

가 .

JDK

JDK

Eclipse Temurin (OpenJDK, ): <https://adoptium.net/> JDK 17 LTS

Oracle JDK: <https://www.oracle.com/java/technologies/downloads/>

( . )

Windows

JAVA\_HOME 가: C:\Java\jdk17

Path %JAVA\_HOME%\bin 가

—

—

Eclipse

JDK

<https://www.eclipse.org/downloads/> Eclipse Installer

Installer 'Eclipse IDE for Java Developers'

JDK JDK

C:\Java\jdk17

[INSTALL]

[LAUNCH]

Workspace Eclipse

Eclipse JDK 가 ( ) —

STEP 1 Window Preferences

STEP 2 Preferences Java Installed JREs [Add]

STEP 3 Add JRE JRE Type: Standard VM [Next]

STEP 4 JRE home [Directory...] [Finish]

STEP 5 Installed JREs 가 JDK JDK [Apply and Close]

## 3.5

## 4. Eclipse

### 4.1 Workspace Project

Workspace: Eclipse가 .

Project: Workspace

Java .

## 4.2 Java

File New Java Project

Project name ( : HelloWorld)

JDK [Finish]

src New Class

Name ( : HelloWorld)

'public static void main(String[] args)' [Finish]

(Ctrl+S)

Run Run As Java Application Ctrl+F11

## 4.3 Java — Hello, World!

## 5. Eclipse

### 5.1

### 5.2 (Ctrl+S)

Eclipse .

Ctrl+S .

### 5.3 (Console)

Console .

Console 가 : Window Show View Console

X(Terminate)

(Clear)

## 5.4 Workspace

## 5.5 (Error) vs. (Warning)

(Error): . . 가.

(Warning): . 가 .

(Quick Fix) .

Ctrl+1 Quick Fix 가 .

## 5.6 — UTF - 8

## 5.7 (Compiler)

?

Eclipse 'Java ' .  
JDK 가 , .

가?

A — (가 )

.가 .

STEP 1 Package Explorer

Properties

STEP 2 Properties  
compliance level

Java Compiler

Enable project specific settings

Compiler

B — Workspace ( )

Java

—

6.

7.

8.

9.