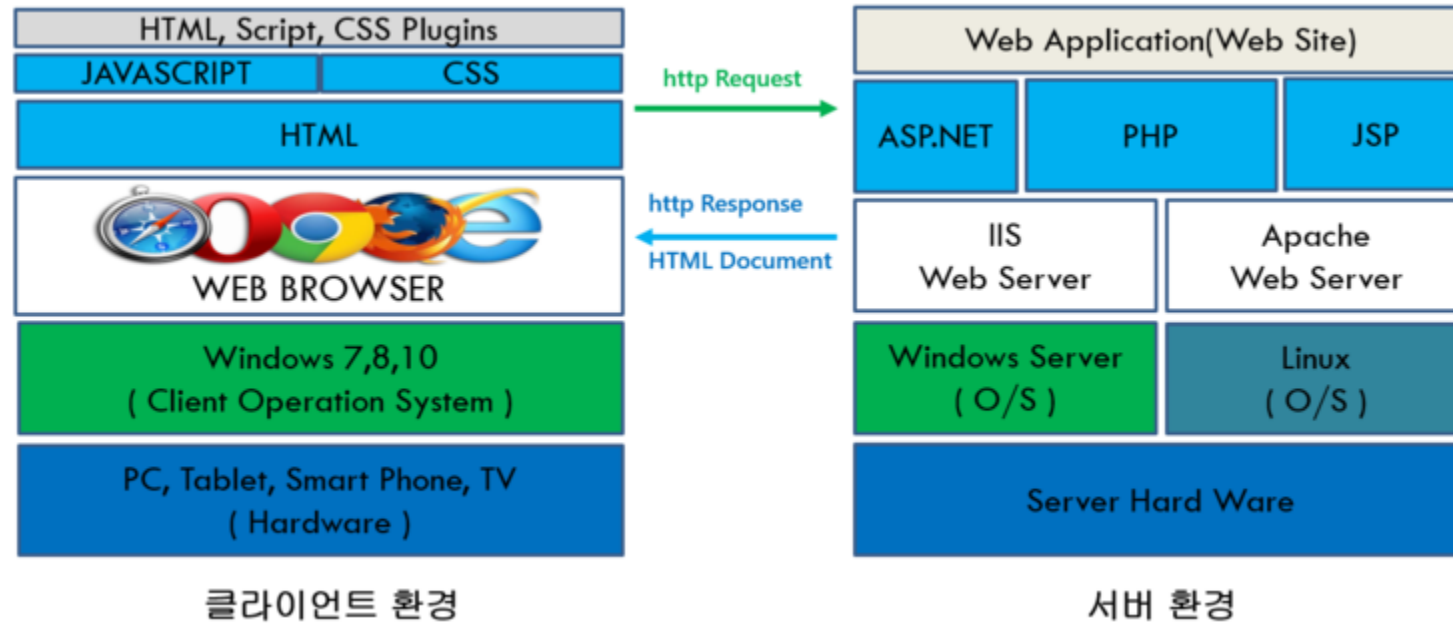# 1강 자료

웹 프로그래밍

JSP 개발 환경 설정

1강

Apache Tomcat Versions

Apache Tomcat® is an open source software implementation of a subset of the Jakarta EE (formally Java EE) technologies. Different versions of Apache Tomcat are available for different versions of the specifications. The mapping between the specifications and the respective Apache Tomcat versions is:

Currently Supported Versions

Servlet Spec	JSP Spec	EL Spec	WebSocket Spec	Authentication Spec (JASPIC)	Apache Tomcat Version	Latest Released Version	Supported Java Versions
6.1	4.0	6.0	2.2	3.1	11.0.x	11.0.0-M24 (beta)	17 and later
6.0	3.1	5.0	2.1	3.0	10.1.x	10.1.28	11 and later
4.0	2.3	3.0	1.1	1.1	9.0.x	9.0.93	8 and later

Unsupported Versions

These versions of Apache Tomcat have reached end-of-life and users are encouraged to upgrade to a supported version.

Servlet Spec	JSP Spec	EL Spec	WebSocket Spec	Authentication Spec (JASPIC)	Apache Tomcat Version	Final[1] Released Version	Supported Java Versions	EOL Date
5.0	3.0	4.0	2.0	2.0	10.0.x (superseded)	10.0.27 (superseded)	8 and later	2022-10-31
3.1	2.3	3.0	1.1	1.1	8.5.x (EOL)	8.5.100 (EOL)	7 and later	2024-03-31
3.1	2.3	3.0	1.1	N/A	8.0.x (superseded)	8.0.53 (superseded)	7 and later	2018-06-30
3.0	2.2	2.2	1.1	N/A	7.0.x (archived)	7.0.109 (archived)	6 and later (7 and later for WebSocket)	2021-03-31
2.5	2.1	2.1	N/A	N/A	6.0.x (archived)	6.0.53 (archived)	5 and later	2016-12-31
2.4	2.0	N/A	N/A	N/A	5.5.x (archived)	5.5.36 (archived)	1.4 and later	2012-09-31
2.3	1.2	N/A	N/A	N/A	4.1.x (archived)	4.1.40 (archived)	1.3 and later	2009-06-25
2.2	1.1	N/A	N/A	N/A	3.3.x (archived)	3.3.2 (archived)	1.1 and later	2004-03-09

* "Final" versions are never *absolutely* final, but releases after these are extraordinarily unlikely.

1강

Jakarta Standard Tag Library [Project] [Website]

Jakarta Standard Tag Library represents a set of tags to simplify the Jakarta Server Pages(JSP) development.

- **Jakarta Standard Tag Library 3.0**

  Release for Jakarta EE 10

- **Jakarta Standard Tag Library 2.0**

  Release for Jakarta EE 9

- **Jakarta Standard Tag Library 1.2**

  First release for Jakarta EE 8

JSP 개발을 위해 필요한 요소

JDK

Java JDK: Java 개발 도구

Tomcat

JSP 실행 환경

Eclipse

IDE: 프로그래밍 도구

다운로드된 파일 압축 해제

```
17.0.2 (build 17.0.2+8)
       Windows      64-bit    zip (sha256) 178M
   Mac/AArch64      64-bit    tar.gz (sha256) 174M
      Mac/x64       64-bit    tar.gz (sha256) 176M
 Linux/AArch64      64-bit    tar.gz (sha256) 178M
     Linux/x64      64-bit    tar.gz (sha256) 179M
                    Source    Tags are jdk-17.0.2+8, jdk-17.0.2-ga
```

10.1.28

Please see the README file for packaging information. It explains what every distribution contains.

Binary Distributions

- Core:
  - zip (pgp, sha512)
  - tar.gz (pgp, sha512)
  - 32-bit Windows zip (pgp, sha512)
  - 64-bit Windows zip (pgp, sha512)
  - 32-bit/64-bit Windows Service Installer (pgp, sha512)

다운로드된 파일 압축 해제

⬇ Download

Download from: Korea, Republic Of - Kakao Corp. (https)
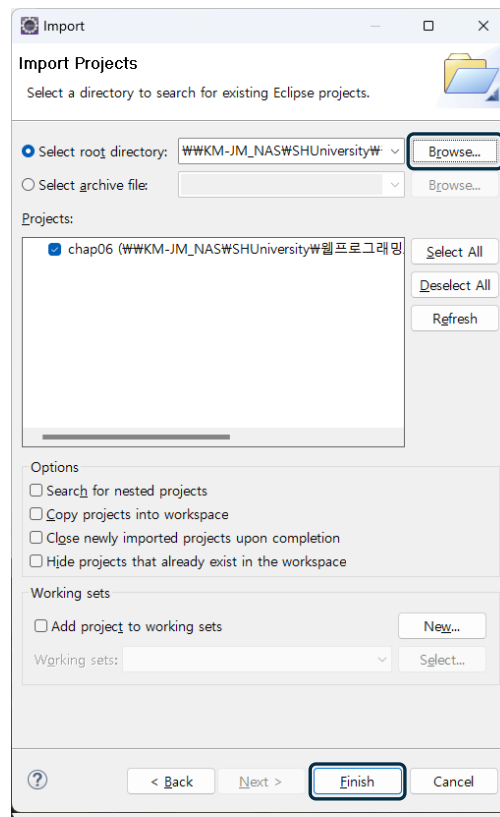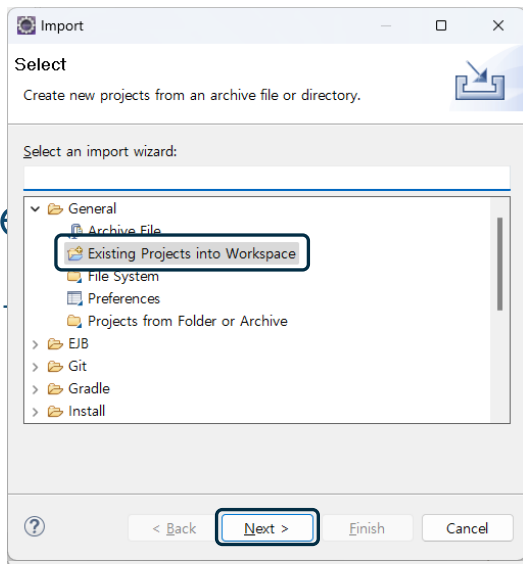
File: eclipse-inst-jre-win64.exe   다운로드된 파일 실행

>> Select Another Mirror

예제 파일 가져오기

- Eclipse에서
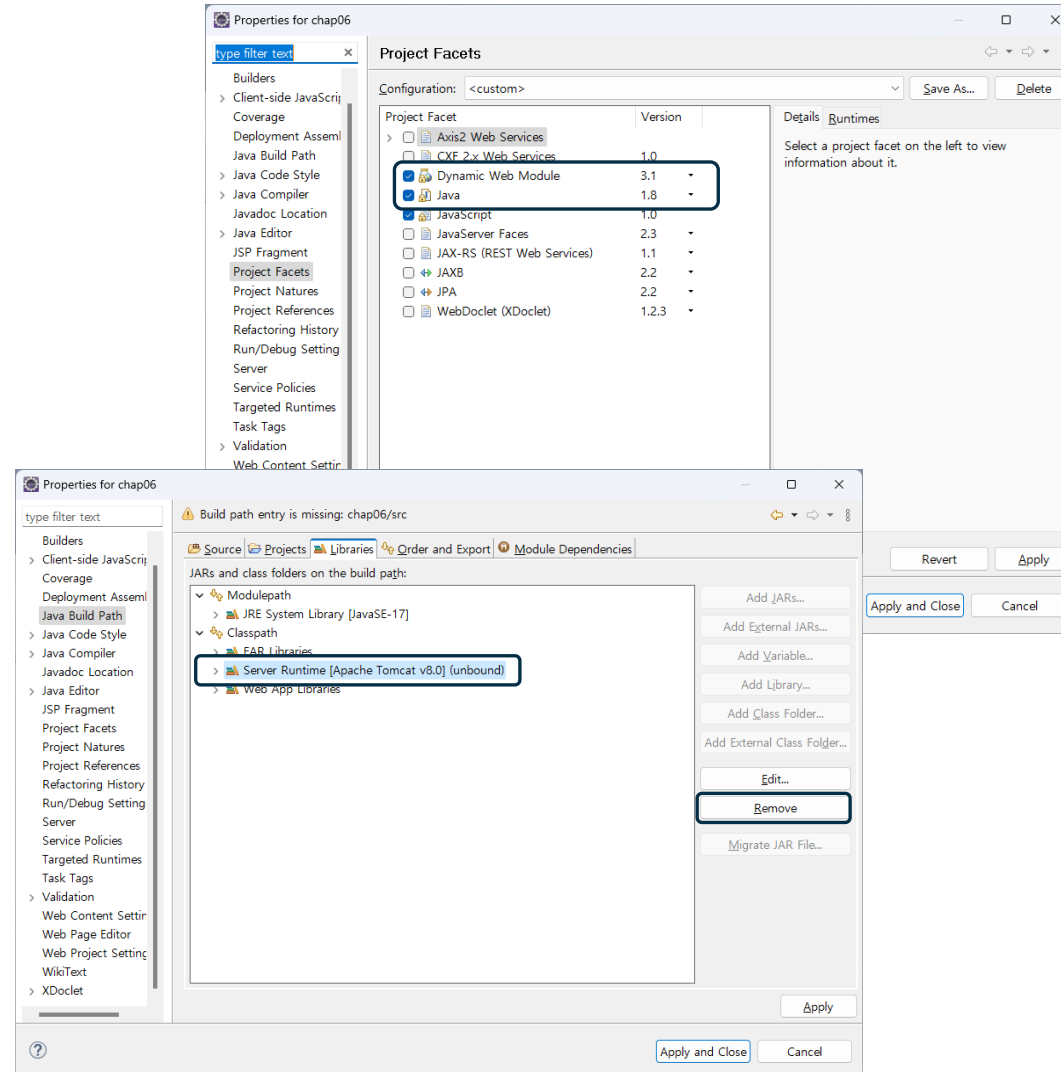- 메뉴 [File]-[Import]

1강
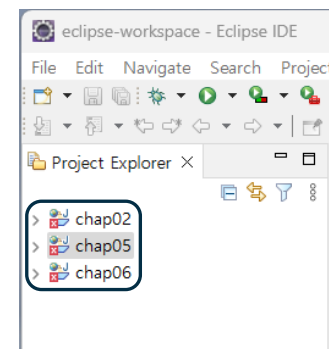
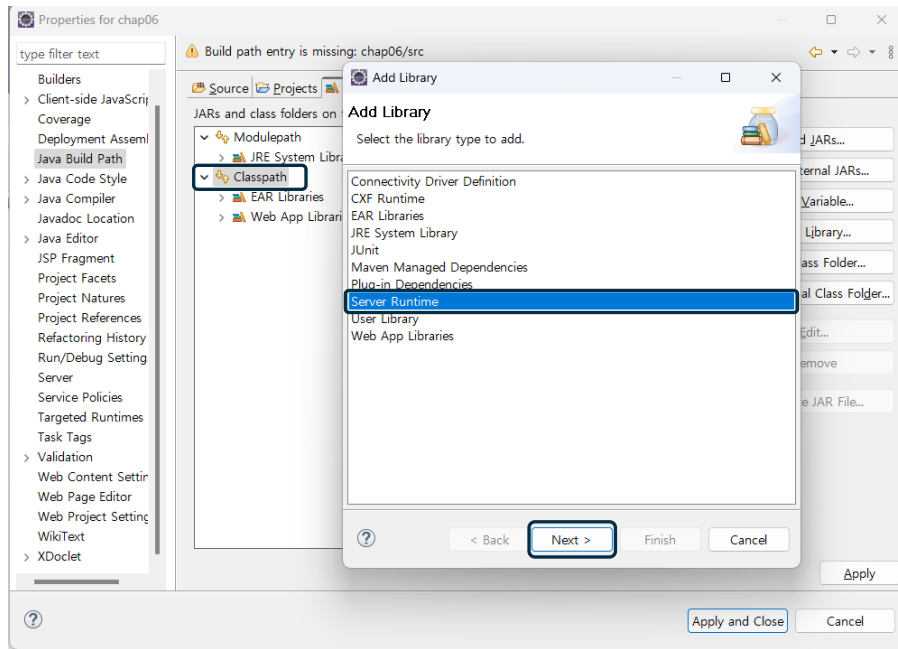## 가져온 프로젝트 오류 수정

Project 선택

　　마우스 우클릭 -> [Properties]

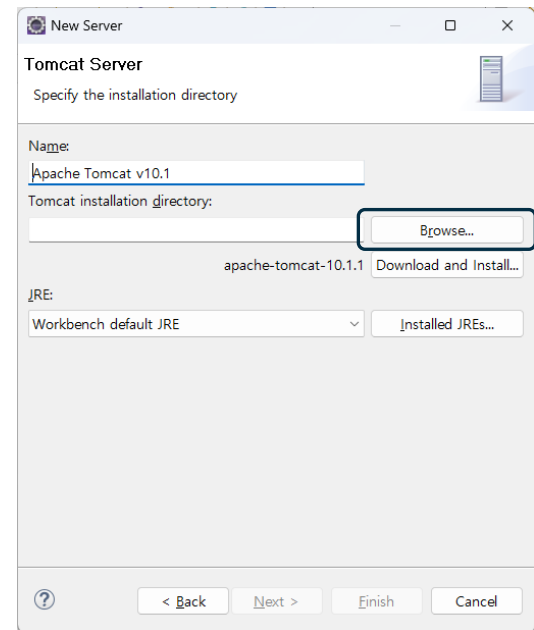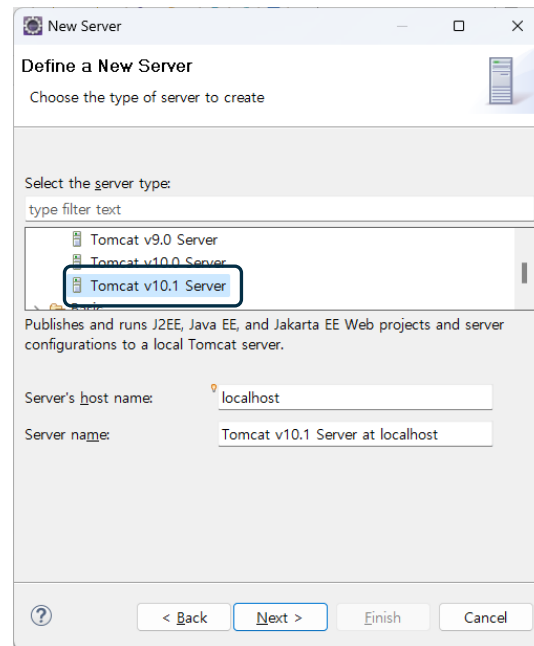　　[Project Facets]
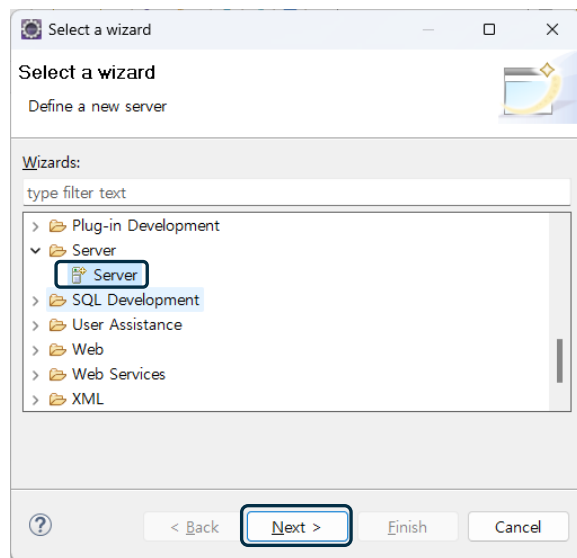
　　　　Dynamic Web Module　3.1

　　　　Java　　　　　　　　　11

가져온 프로젝트 오류 수정

1강

가져온 프로젝트 오류 수정

▶ **Server 추가**

　　▶ **Eclipse [File]-[New]-[Server]**

1강

가져온 프로젝트 오류 수정

▶ **Project 선택**

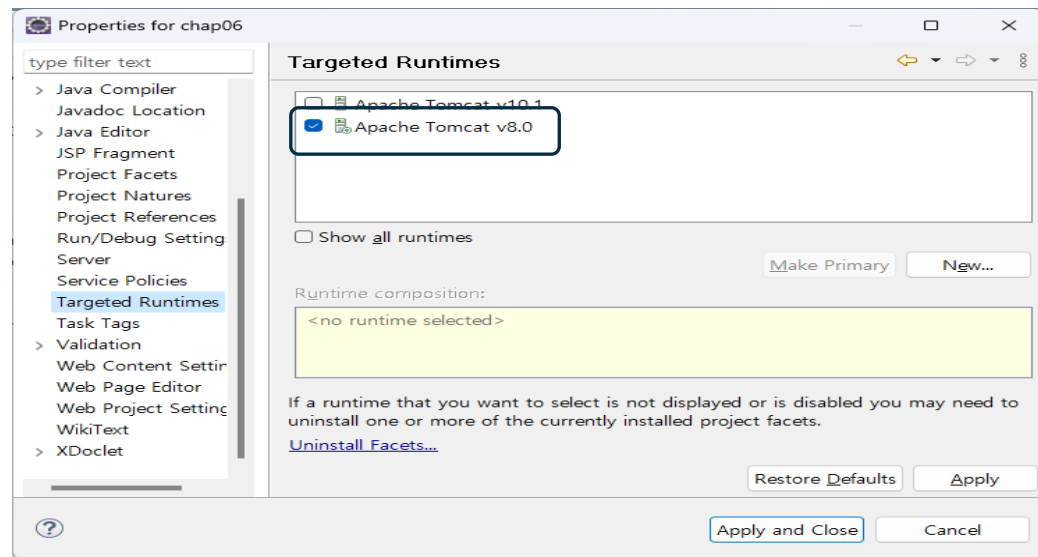   ▶ **마우스 우클릭 > [Properties]**

        ▶ **[Targeted Runtimes]**

End of Document

Thank you