

〈5주차 실습〉

웹 프로그래밍

Web Programming

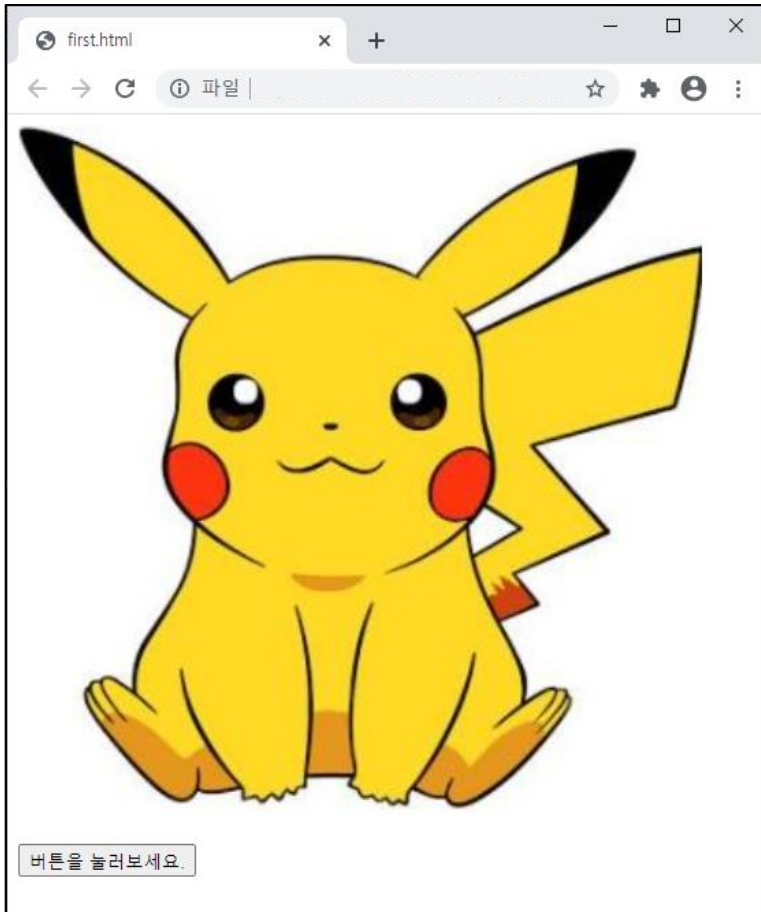
1) "first.html" 파일 생성

<first.html>

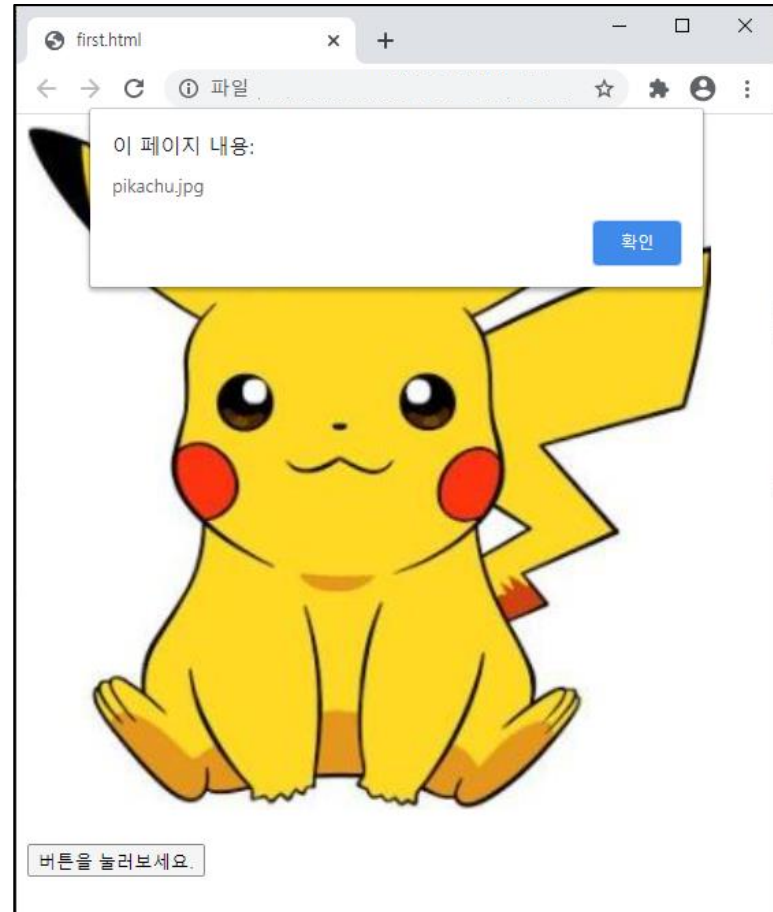
```
<!DOCTYPE html>
<html>
  <head>
    <title></title>
    <meta http-equiv="Content-Type" content="text/html"; charset="utf-8">
    <script src="https://code.jquery.com/jquery-3.6.1.js"></script>
    <script>
      $(document).ready(function() {
        //일반적인 구조(구현)
        //DOM이 로딩되어서 준비가 되면 작업을 시작
        //이후 구체적으로 jQuery 메소드들을 호출
        $("button").click(function(){ //button에 클릭 이벤트가 발생하면
          alert($("#pic").attr("src")); //id가 "pic" 인 요소의 src 속성값을 얻어 alert창 작동
        })
      })
    </script>
  </head>
  <body>
     <br><br>
    <button>버튼을 눌러보세요.</button>
  </body>
</html>
```

2) 실행 결과

<실행 화면>



<버튼 클릭 후 화면>



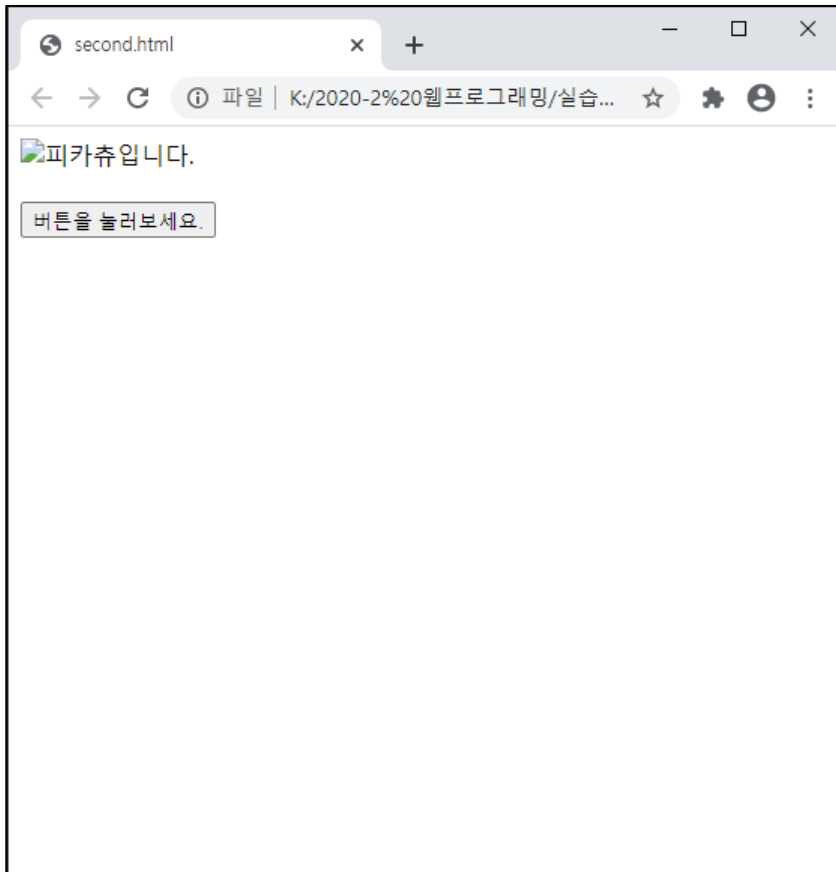
1) "second.html" 파일 생성

<second.html>

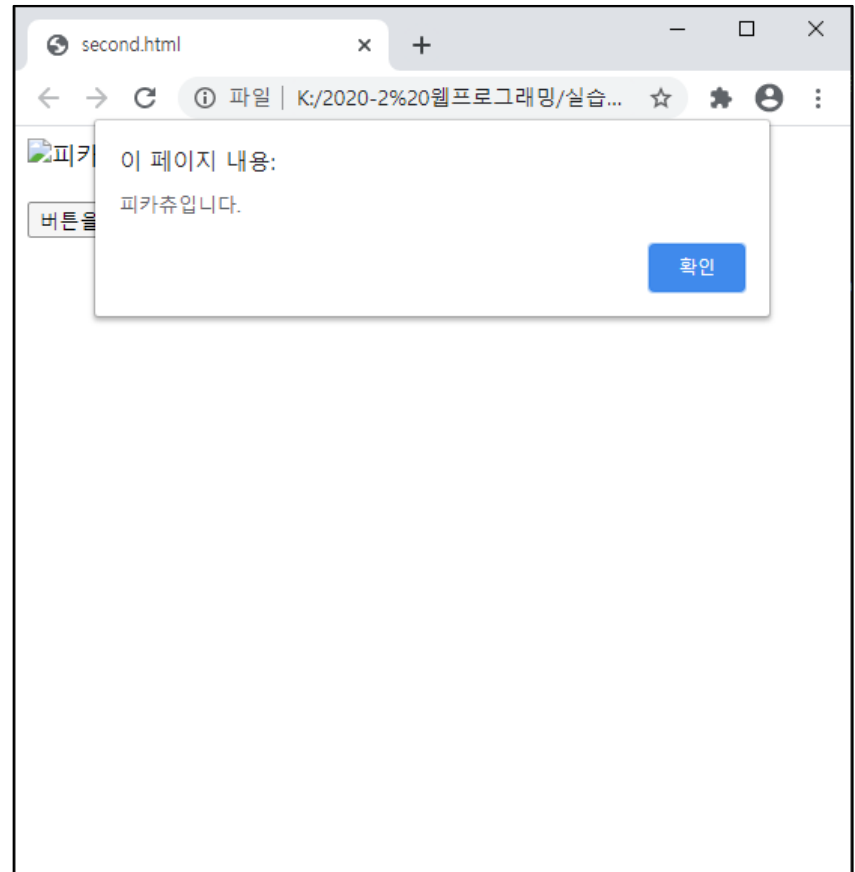
```
<!DOCTYPE html>
<html>
  <head>
    <title></title>
    <meta http-equiv="Content-Type" content="text/html"; charset="utf-8">
    <script src="https://code.jquery.com/jquery-3.6.1.js"></script>
    <script>
      $(document).ready(function() {
        //일반적인 구조(구현)
        //DOM이 로딩되어서 준비가 되면 작업을 시작
        //이후 구체적으로 JQuery 메소드들을 호출
        $("#button").click(function(){ //button에 클릭 이벤트가 발생하면
          alert($("#pic").attr("alt")); //id가 "pic" 인 요소의 alt 속성값을 얻어 alert창 작동
        })
      })
    </script>
  </head>
  <body>
     <br><br>
    <button>버튼을 눌러보세요.</button>
  </body>
</html>
```

2) 실행 결과

<실행 화면>



<버튼 클릭 후 화면>



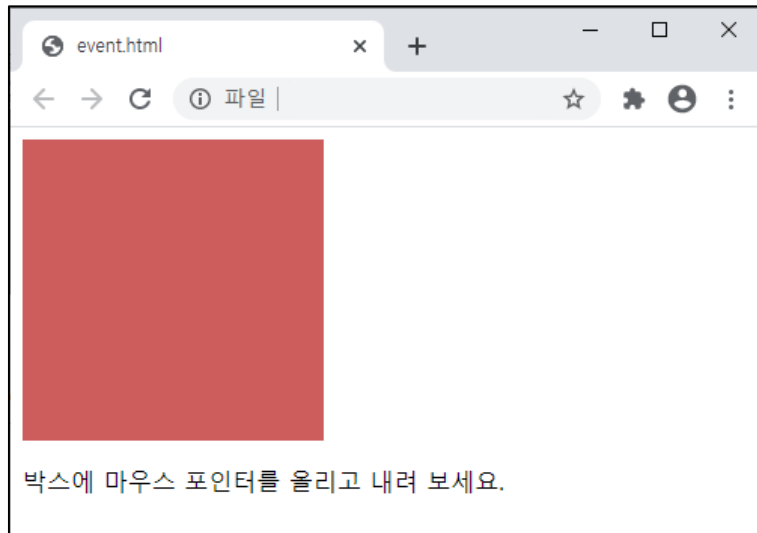
1) "event.html" 파일 생성

<event.html>

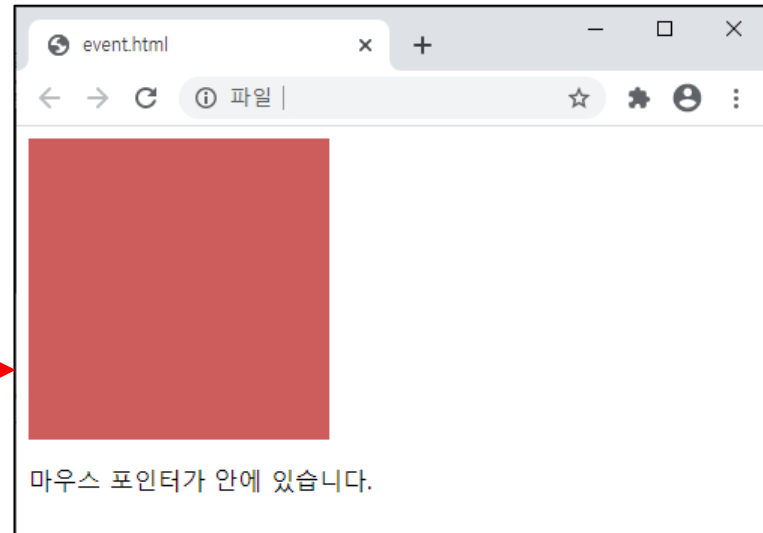
```
<!DOCTYPE html>
<html>
  <head>
    <script type="text/javascript" src="https://code.jquery.com/jquery-3.6.1.js"> </script>
    <script>
      $(function(){
        $(".box").mouseenter(function() { //마우스 포인터를 대상에 올릴 때 발생하는 이벤트
          $(".word").text("마우스 포인터가 안에 있습니다.");
        });
        $(".box").mouseleave(function(){ //마우스 포인터가 대상을 떠날 때 발생하는 이벤트
          $(".word").text("마우스 포인터가 밖에 있습니다.");
        });
      });
    </script>
  </head>
  <body>
    <div class="box" style="width:200px; height:200px; background:indianred"> </div>
    <p class="word">박스에 마우스 포인터를 올리고 내려보세요.</p>
  </body>
</html>
```

2) 실행 결과

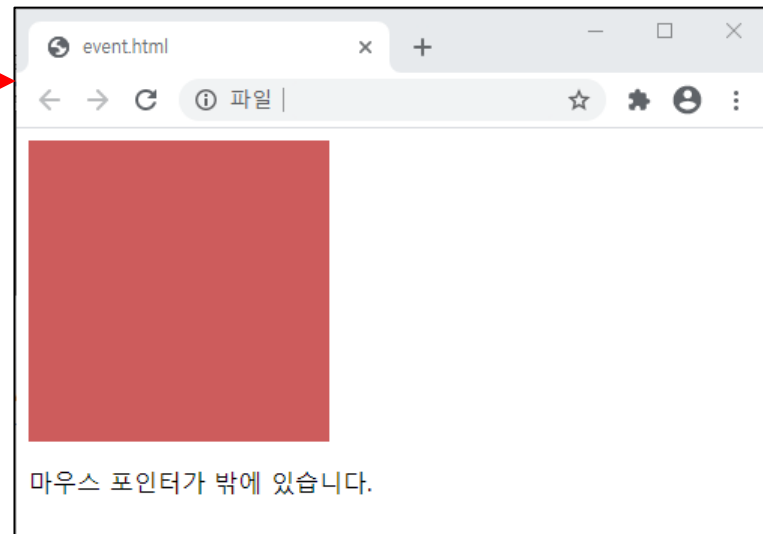
<실행 화면>



<마우스 포인터가 박스 안에 있을 때>



<마우스 포인터가 박스 밖에 있을 때>



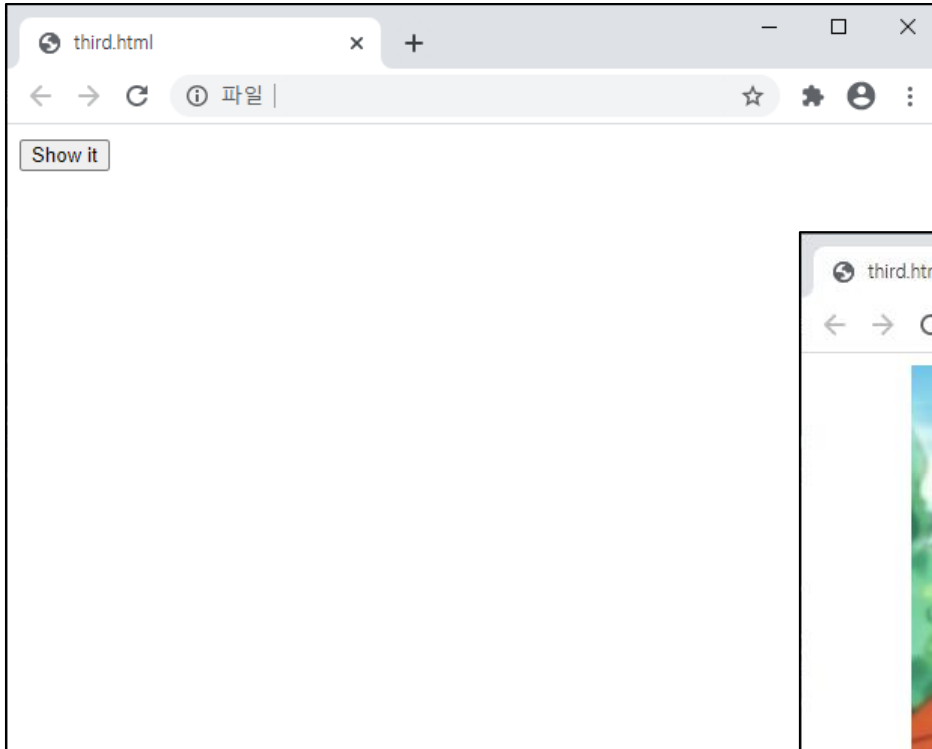
1) "third.html" 파일 생성

<third.html>

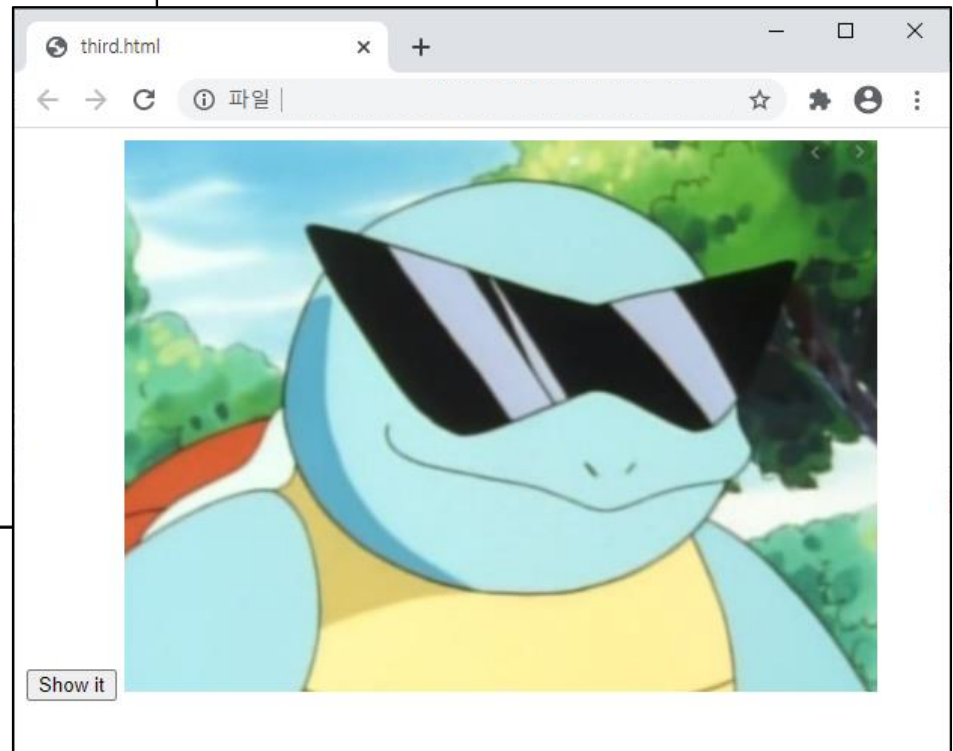
```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<script src="https://code.jquery.com/jquery-3.3.1.js"> </script>
</head>
<body>
  <button>Show it</button>
  
  <script>
    $(document).ready(function(){
      $("button").click(function(){
        $("#new").show("slow"); //id가 "new"인 요소에 show메소드 적용
      });
    });
  </script>
</body>
</html>
```


2) 실행 결과

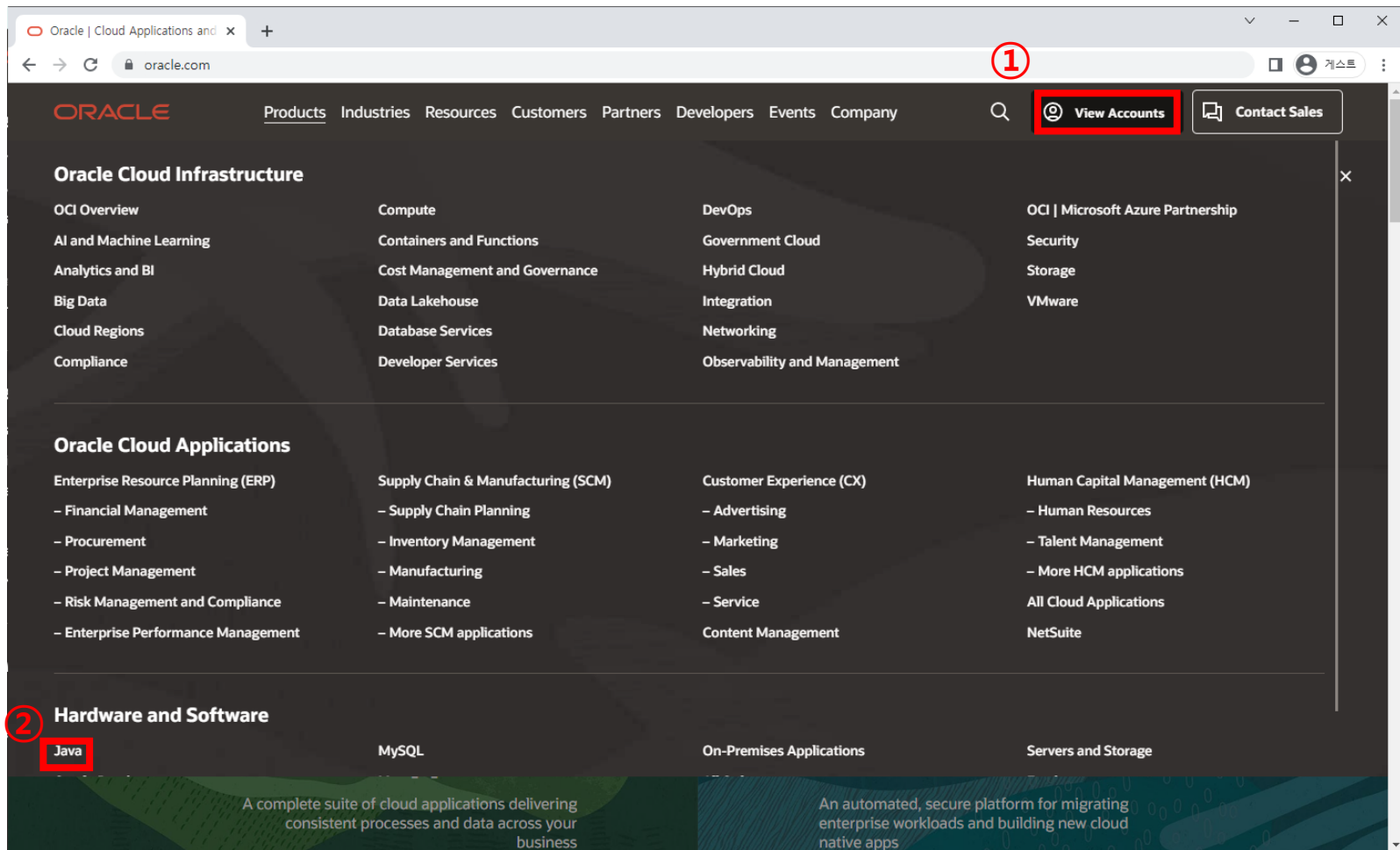
<실행 화면>



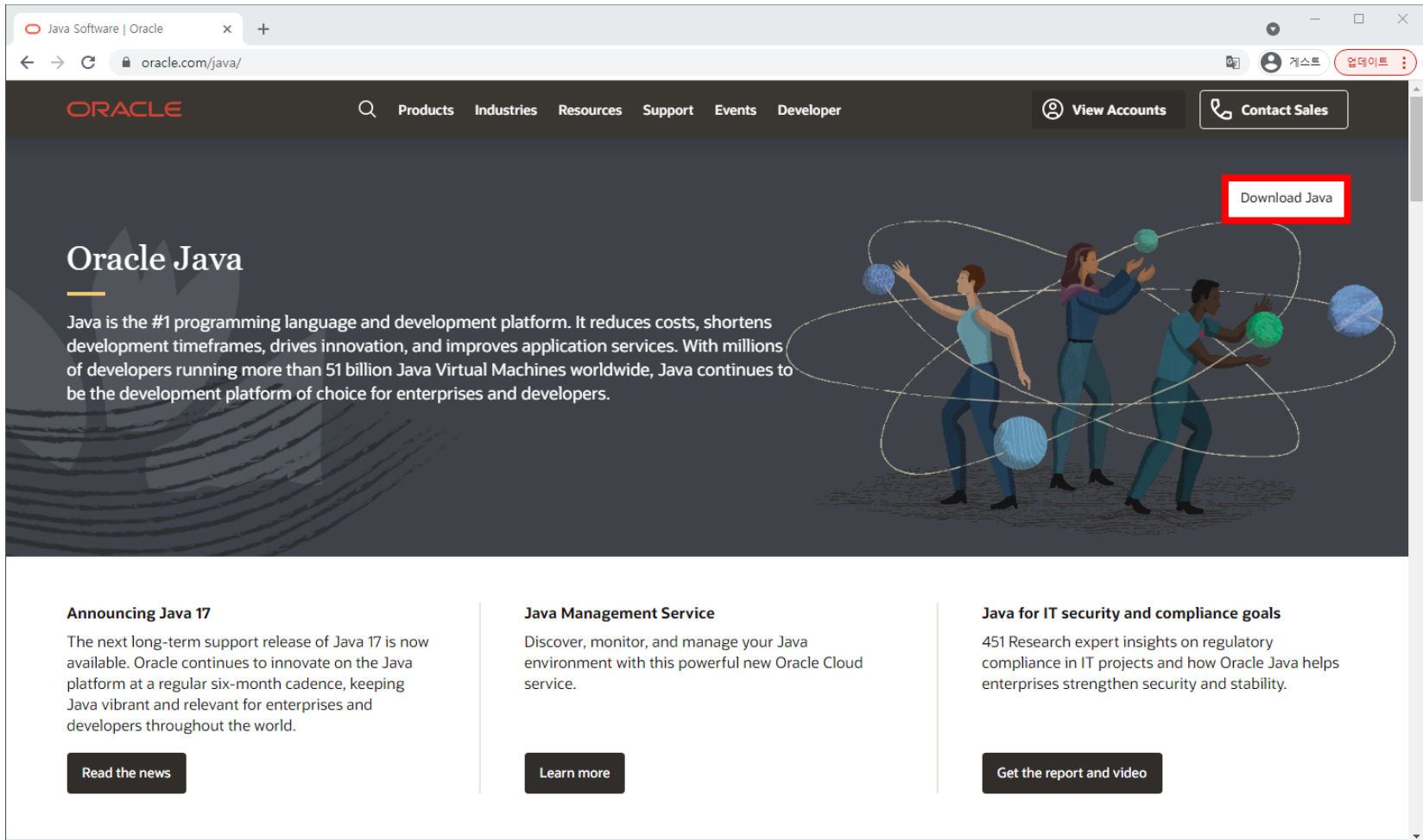
<버튼 클릭 후 화면>



- 1) "https://www.oracle.com/" 사이트에 접속
- 2) 오른쪽 상단의 "View Accounts" → "Oracle Account" 에서 회원가입 후 로그인
- 3) "Products" → "Hardware and Software" → "Java" 클릭



4) 오른쪽 상단의 “Download Java” 클릭



The screenshot shows the Oracle Java website. The browser address bar displays 'oracle.com/java/'. The navigation bar includes links for Products, Industries, Resources, Support, Events, and Developer, along with buttons for 'View Accounts' and 'Contact Sales'. The main content area features the 'Oracle Java' logo and a description of Java as the #1 programming language. A red box highlights the 'Download Java' button in the top right corner of the main content area. Below the main content, there are three sections: 'Announcing Java 17', 'Java Management Service', and 'Java for IT security and compliance goals', each with a corresponding 'Read the news', 'Learn more', or 'Get the report and video' button.

Java Software | Oracle

oracle.com/java/

ORACLE

Products Industries Resources Support Events Developer

View Accounts Contact Sales

Download Java

Oracle Java

Java is the #1 programming language and development platform. It reduces costs, shortens development timeframes, drives innovation, and improves application services. With millions of developers running more than 51 billion Java Virtual Machines worldwide, Java continues to be the development platform of choice for enterprises and developers.

Announcing Java 17

The next long-term support release of Java 17 is now available. Oracle continues to innovate on the Java platform at a regular six-month cadence, keeping Java vibrant and relevant for enterprises and developers throughout the world.

Read the news

Java Management Service

Discover, monitor, and manage your Java environment with this powerful new Oracle Cloud service.

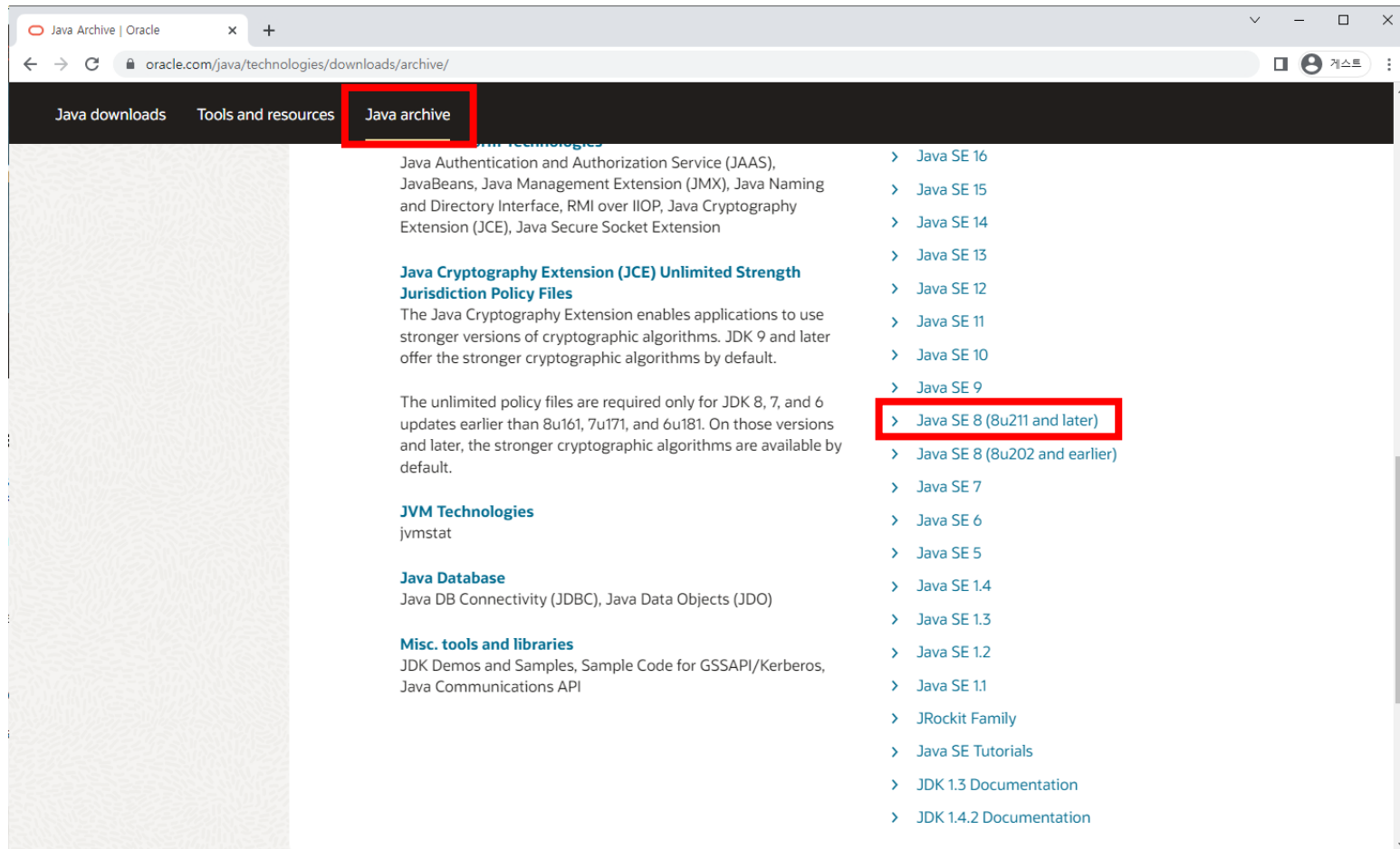
Learn more

Java for IT security and compliance goals

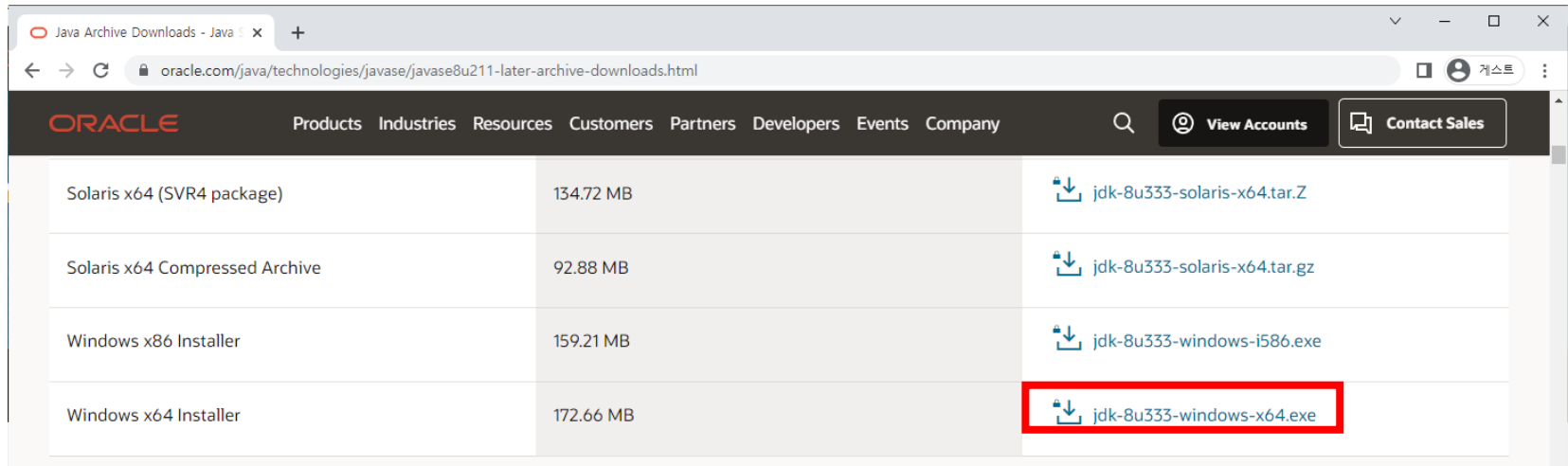
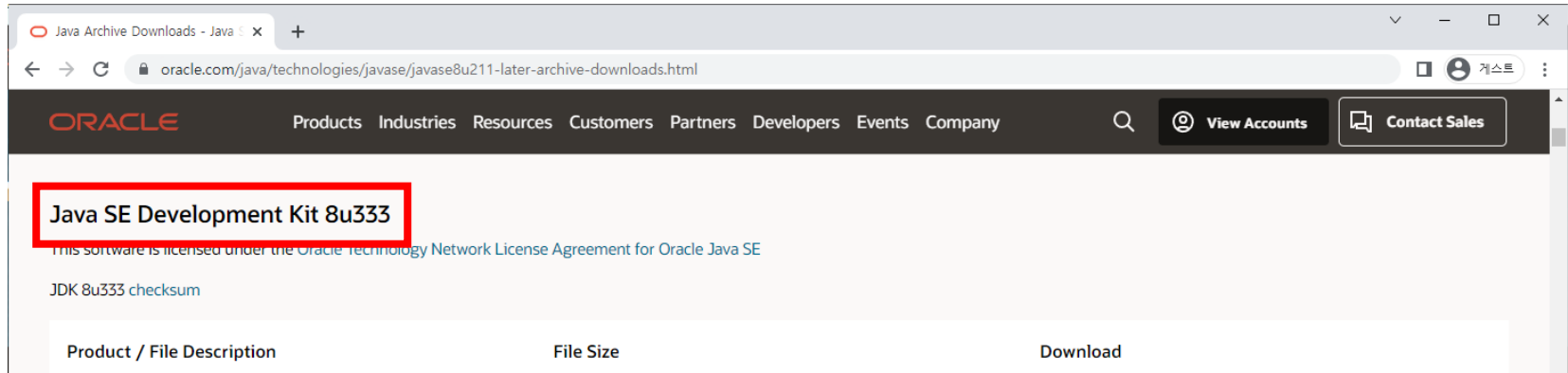
451 Research expert insights on regulatory compliance in IT projects and how Oracle Java helps enterprises strengthen security and stability.

Get the report and video

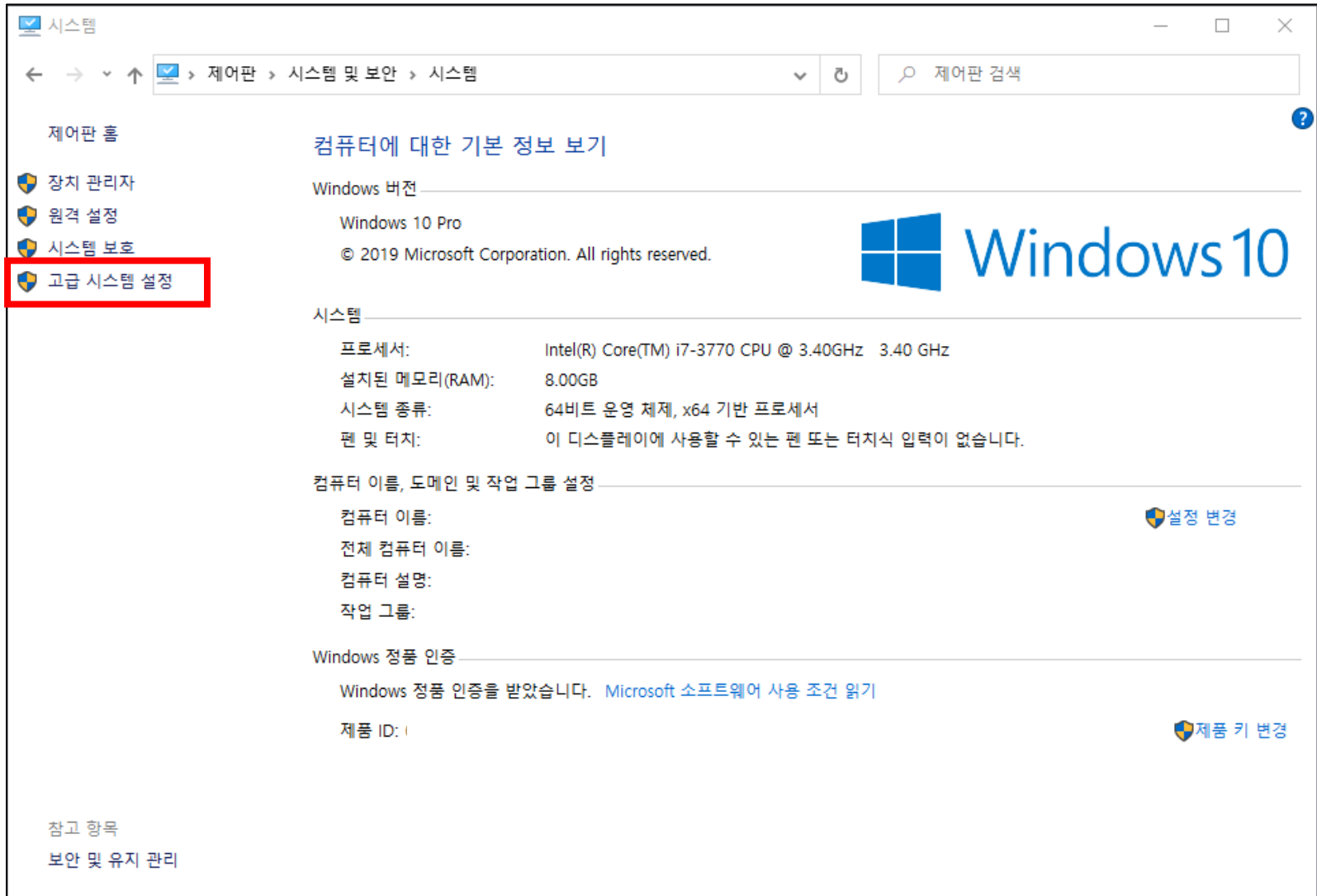
5) "Java Crchive" → "Java SE 8" 클릭



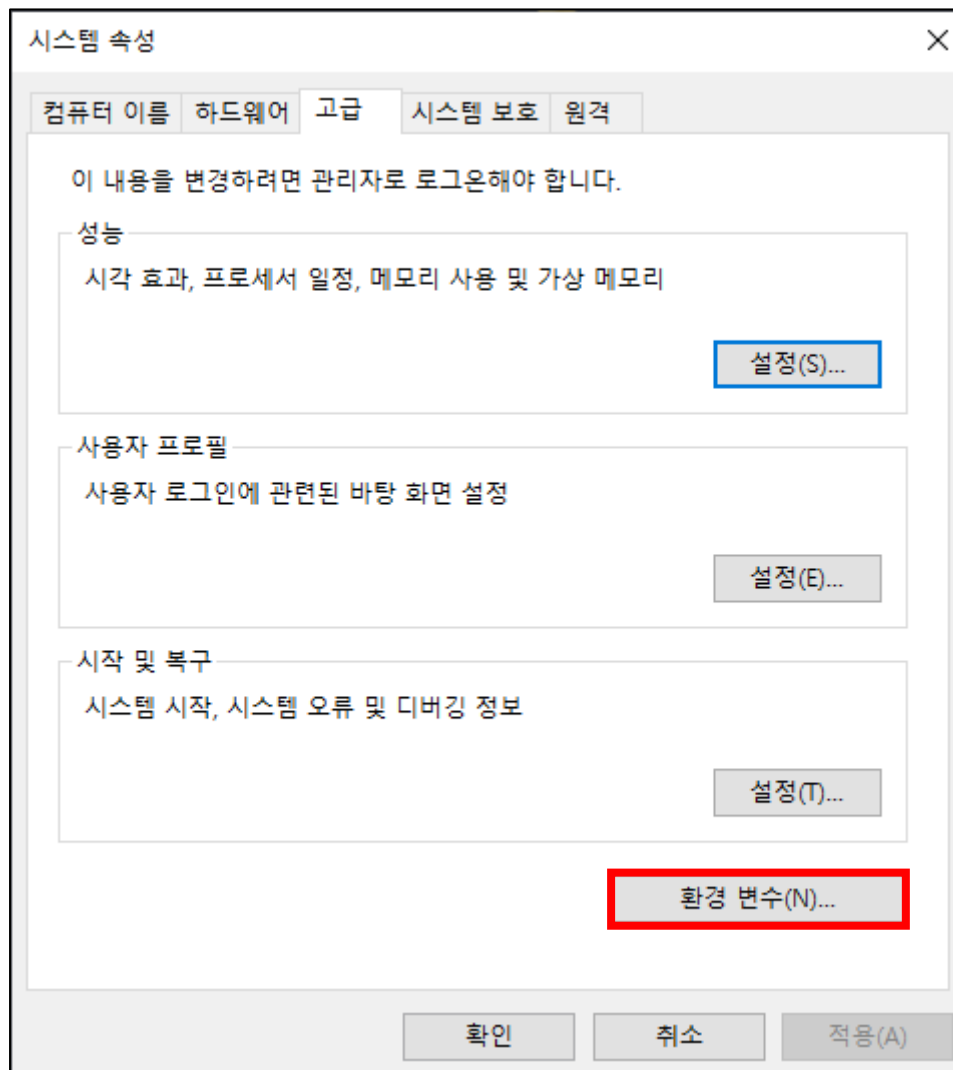
- 6) 자신에게 맞는 OS 를 확인한 후 "x64 installer" 다운로드 후 설치 진행
(설치 위치를 반드시 기억할 것)



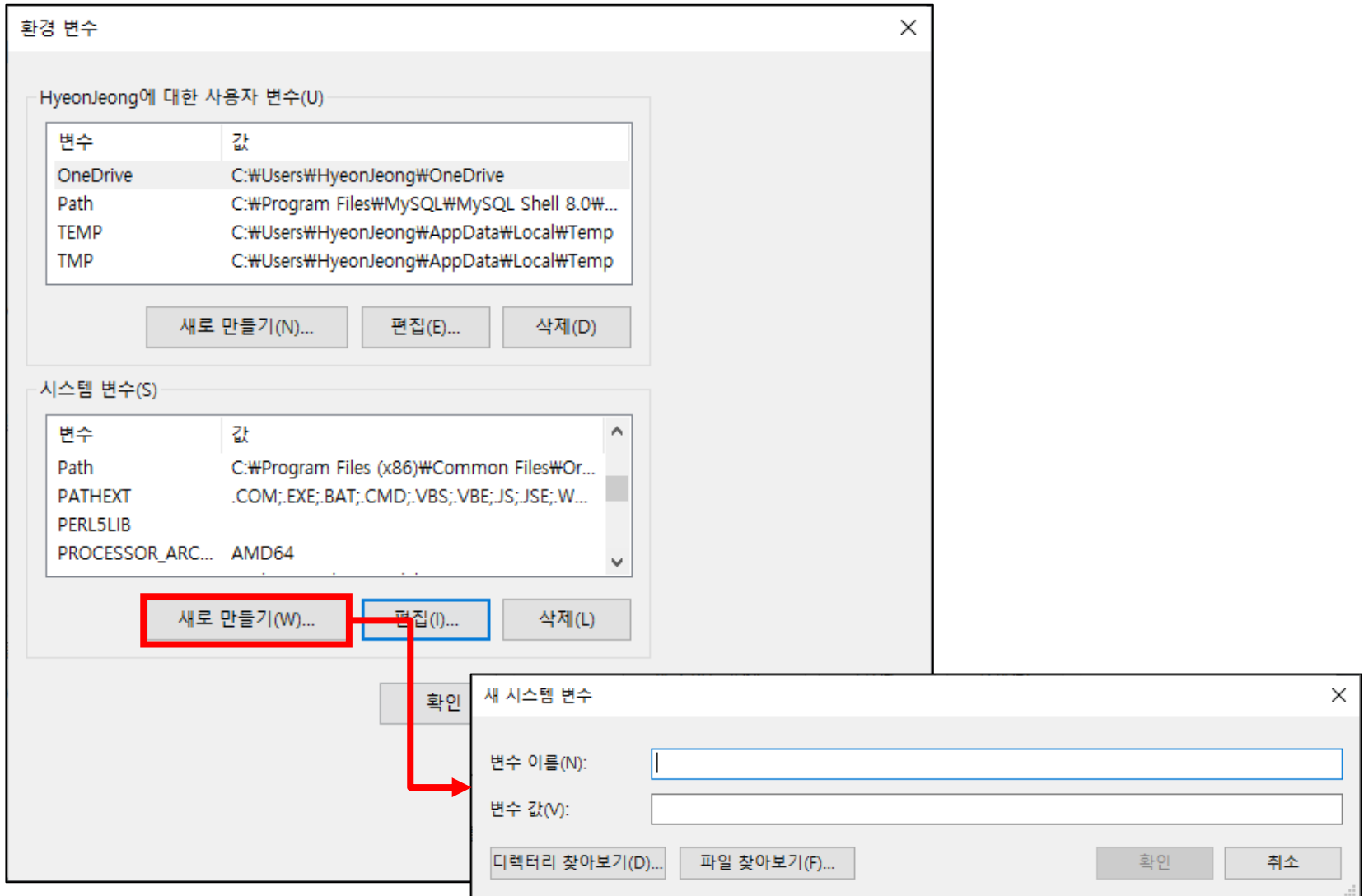
8) 제어판 → 시스템 및 보안 → 시스템 → “고급 시스템 설정” 클릭



8) "환경 변수" 클릭



9) "시스템 변수" 에서 "새로 만들기" 클릭

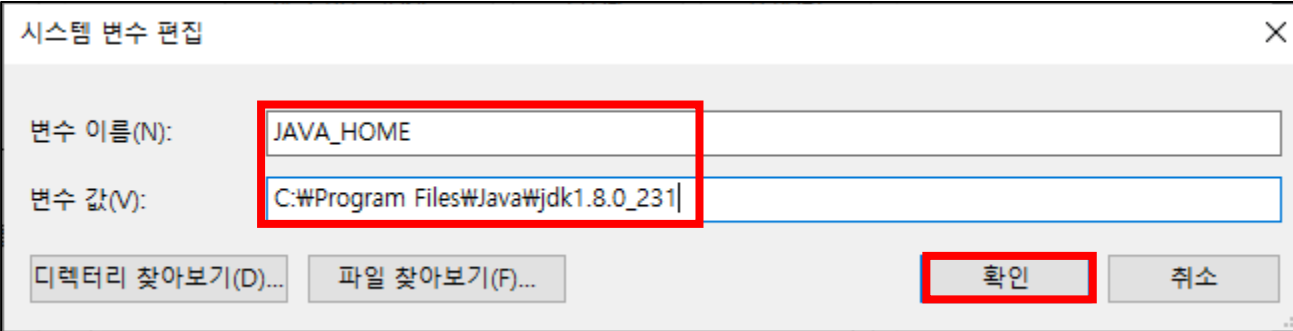


10) 아래와 같이 각각 두 개의 시스템 변수를 추가하기

① 변수 이름 : JAVA_HOME, 변수 값 : 자바 설치 위치 → 입력 후 “확인” 클릭

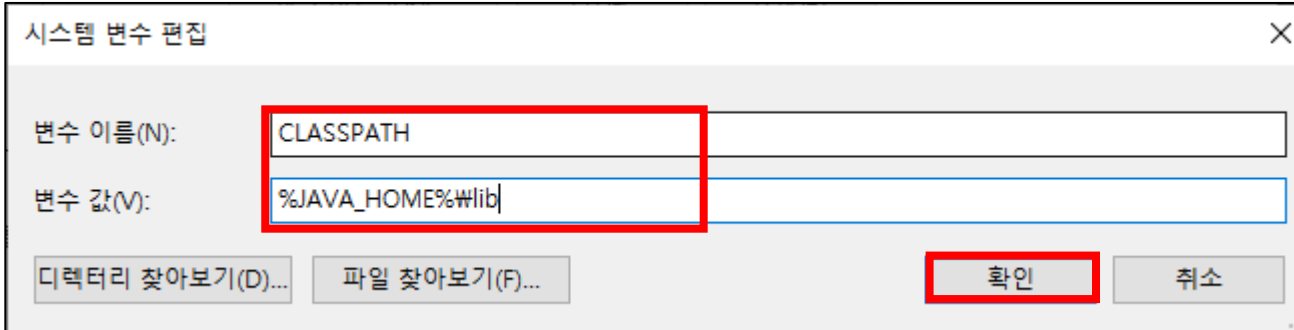
② 변수 이름 : CLASSPATH, 변수 값 : %JAVA_HOME%\lib → 입력 후 “확인” 클릭

①



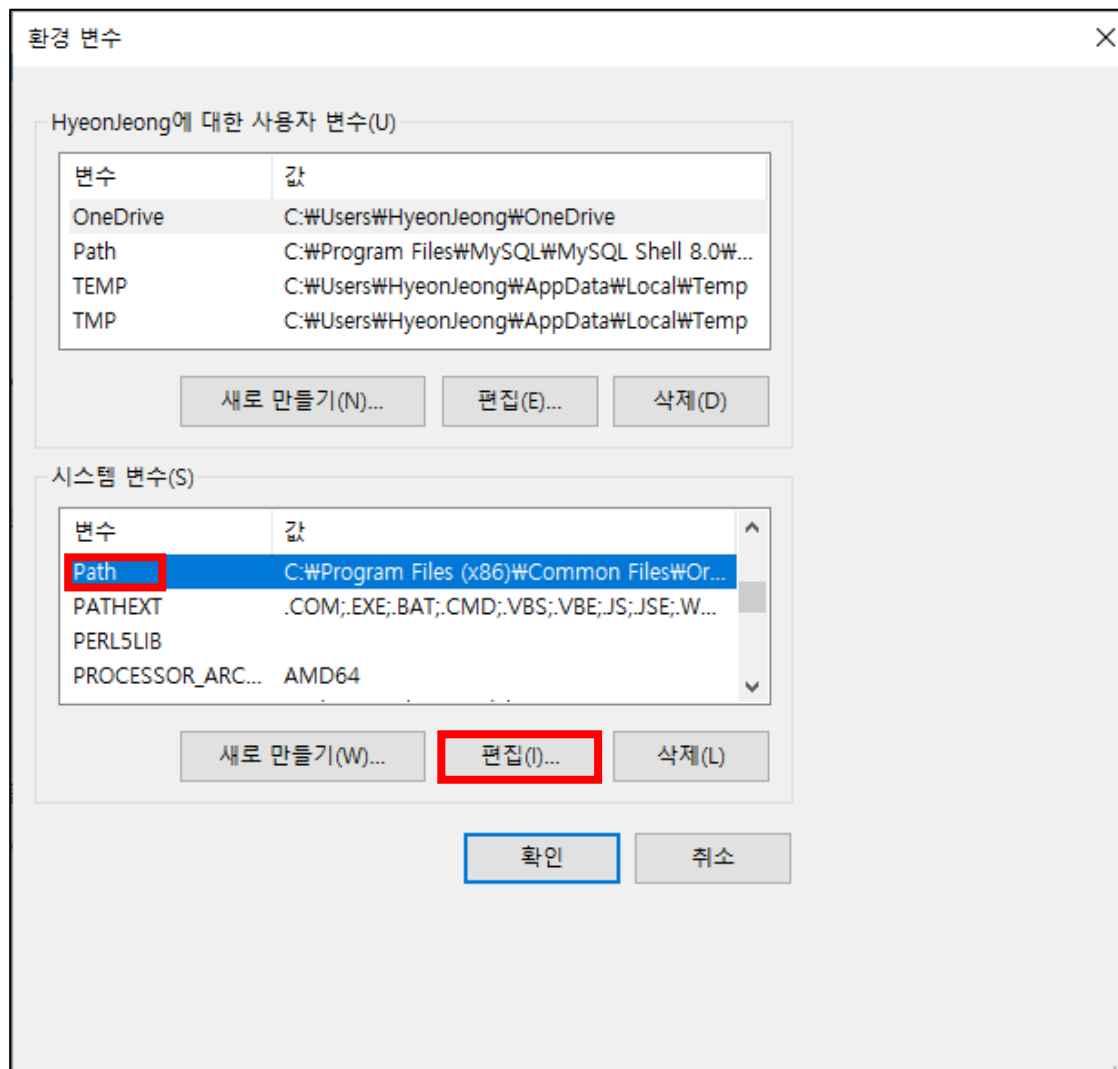
The screenshot shows the '시스템 변수 편집' (Edit System Variables) dialog box. The '변수 이름(N):' (Variable name) field contains 'JAVA_HOME' and the '변수 값(V):' (Variable value) field contains 'C:\Program Files\Java\jdk1.8.0_231'. Both fields are highlighted with a red rectangle. At the bottom right, the '확인' (OK) button is also highlighted with a red rectangle. Other buttons include '디렉터리 찾아보기(D)...' (Browse for directory...), '파일 찾아보기(F)...' (Browse for file...), and '취소' (Cancel).

②



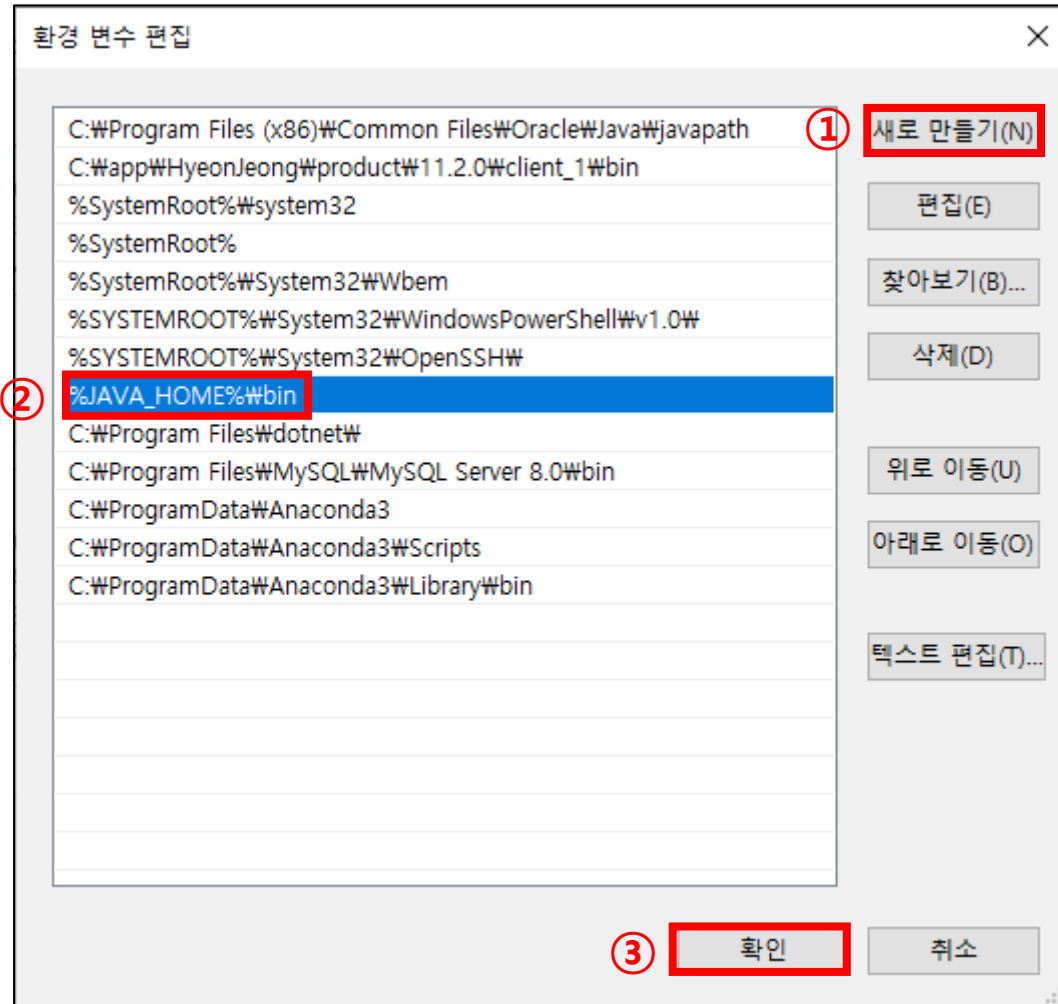
The screenshot shows the '시스템 변수 편집' (Edit System Variables) dialog box. The '변수 이름(N):' (Variable name) field contains 'CLASSPATH' and the '변수 값(V):' (Variable value) field contains '%JAVA_HOME%\lib'. Both fields are highlighted with a red rectangle. At the bottom right, the '확인' (OK) button is also highlighted with a red rectangle. Other buttons include '디렉터리 찾아보기(D)...' (Browse for directory...), '파일 찾아보기(F)...' (Browse for file...), and '취소' (Cancel).

11) "시스템 변수"의 "PATH" 선택 후 "편집" 클릭

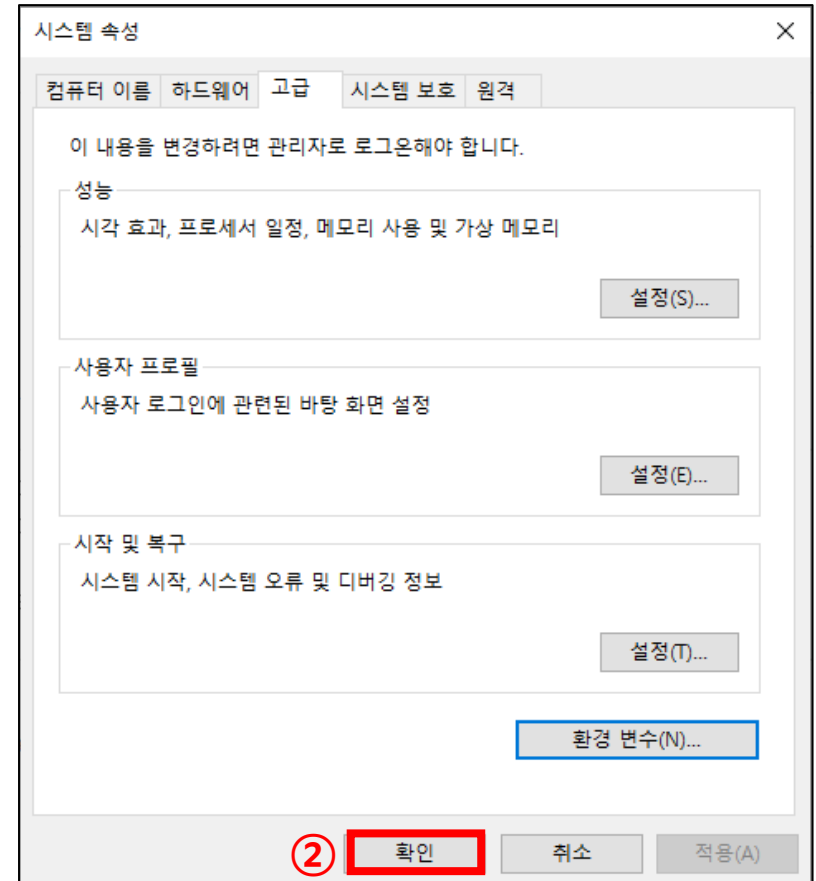
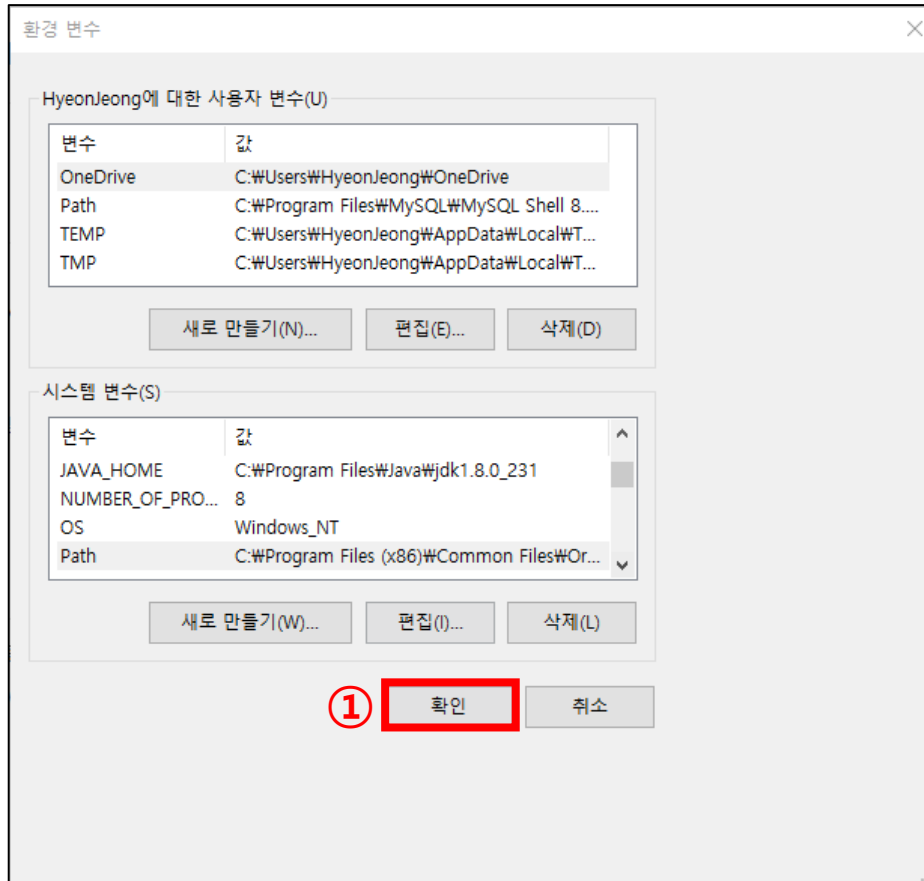


12) “새로 만들기” 클릭

13) %JAVA_HOME%\bin 입력 후 “확인” 클릭



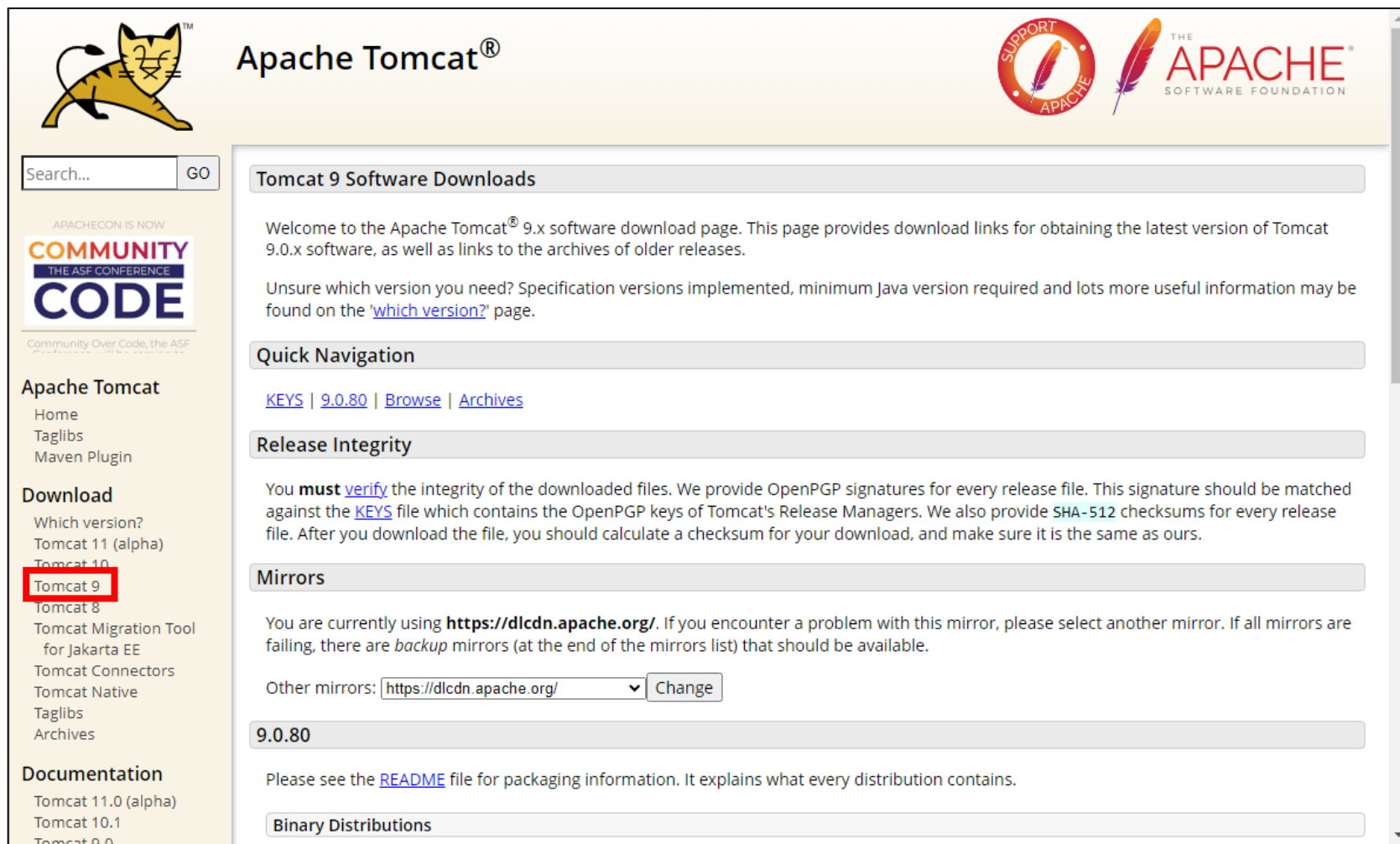
14) “확인” 클릭



명령어 : java, javac, java -version, javac -version

The image displays three overlapping screenshots of a Windows command prompt window, titled "명령 프롬프트" (Command Prompt). The top-left screenshot shows the command `java` being entered at the prompt `C:\Users\HyeonJeong>`, with the word `java` highlighted by a red box. Below the command, the usage instructions for `java` are shown: `사용법: java [-options] class [args...]` and `(클래스 실행)`. The top-right screenshot shows the command `javac` being entered at the prompt `C:\Users\HyeonJeong>`, with the word `javac` highlighted by a red box. Below the command, the usage instructions for `javac` are shown: `Usage: javac <options> <source files>` and `where possible options include:`. The bottom screenshot shows the command `java -version` being entered at the prompt `C:\Users\HyeonJeong>`, with the command highlighted by a red box. Below the command, the output of the command is shown: `java version "1.8.0_231"`, `Java(TM) SE Runtime Environment (build 1.8.0_231-b11)`, and `Java HotSpot(TM) 64-Bit Server VM (build 25.231-b11, mixed mode)`. The command `javac -version` is also shown at the bottom of the screenshot, with the command highlighted by a red box. Below the command, the output of the command is shown: `javac 1.8.0_231`.

- 1) "http://tomcat.apache.org" 접속
- 2) "Download"의 "Tomcat 9" 클릭



Apache Tomcat®

Search... GO

APACHECON IS NOW
COMMUNITY
THE ASF CONFERENCE
CODE
Community Over Code, the ASF

Apache Tomcat

- Home
- Taglibs
- Maven Plugin

Download

- Which version?
- Tomcat 11 (alpha)
- Tomcat 10
- Tomcat 9**
- Tomcat 8
- Tomcat Migration Tool for Jakarta EE
- Tomcat Connectors
- Tomcat Native
- Taglibs
- Archives

Documentation

- Tomcat 11.0 (alpha)
- Tomcat 10.1
- Tomcat 9.0

Tomcat 9 Software Downloads

Welcome to the Apache Tomcat® 9.x software download page. This page provides download links for obtaining the latest version of Tomcat 9.0.x software, as well as links to the archives of older releases.

Unsure which version you need? Specification versions implemented, minimum Java version required and lots more useful information may be found on the '[which version?](#)' page.

Quick Navigation

[KEYS](#) | [9.0.80](#) | [Browse](#) | [Archives](#)

Release Integrity

You **must** [verify](#) the integrity of the downloaded files. We provide OpenPGP signatures for every release file. This signature should be matched against the [KEYS](#) file which contains the OpenPGP keys of Tomcat's Release Managers. We also provide [SHA-512](#) checksums for every release file. After you download the file, you should calculate a checksum for your download, and make sure it is the same as ours.

Mirrors

You are currently using <https://dlcdn.apache.org/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available.

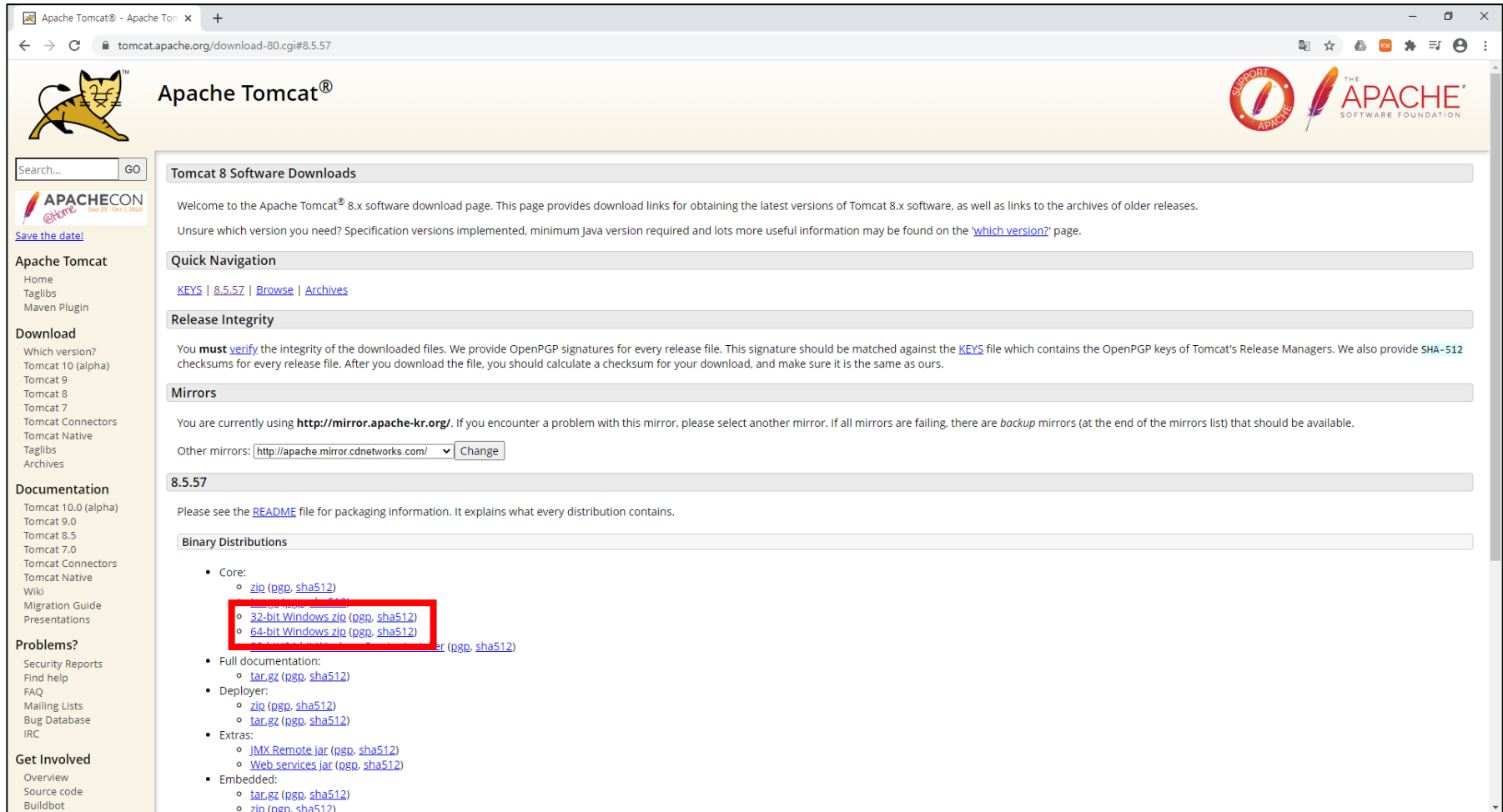
Other mirrors:

9.0.80

Please see the [README](#) file for packaging information. It explains what every distribution contains.

Binary Distributions

3) “Binary Distributions”에서 운영체제에 맞는 압축 파일 다운로드



Apache Tomcat® - Apache Tomcat®

Search... GO

APACHECON @home

Save the date!

Apache Tomcat

- Home
- Taglibs
- Maven Plugin

Download

- Which version?
- Tomcat 10 (alpha)
- Tomcat 9
- Tomcat 8
- Tomcat 7
- Tomcat Connectors
- Tomcat Native
- Taglibs
- Archives

Documentation

- Tomcat 10.0 (alpha)
- Tomcat 9.0
- Tomcat 8.5
- Tomcat 7.0
- Tomcat Connectors
- Tomcat Native
- Wiki
- Migration Guide
- Presentations

Problems?

- Security Reports
- Find help
- FAQ
- Mailing Lists
- Bug Database
- IRC

Get Involved

- Overview
- Source code
- Buildbot

Tomcat 8 Software Downloads

Welcome to the Apache Tomcat® 8.x software download page. This page provides download links for obtaining the latest versions of Tomcat 8.x software, as well as links to the archives of older releases.

Unsure which version you need? Specification versions implemented, minimum Java version required and lots more useful information may be found on the ["which version?"](#) page.

Quick Navigation

[KEYS](#) | [8.5.57](#) | [Browse](#) | [Archives](#)

Release Integrity

You **must** [verify](#) the integrity of the downloaded files. We provide OpenPGP signatures for every release file. This signature should be matched against the [KEYS](#) file which contains the OpenPGP keys of Tomcat's Release Managers. We also provide [SHA-512](#) checksums for every release file. After you download the file, you should calculate a checksum for your download, and make sure it is the same as ours.

Mirrors

You are currently using <http://mirror.apache-kr.org/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available.

Other mirrors: <http://apache.mirror.cdnetworks.com/>

8.5.57

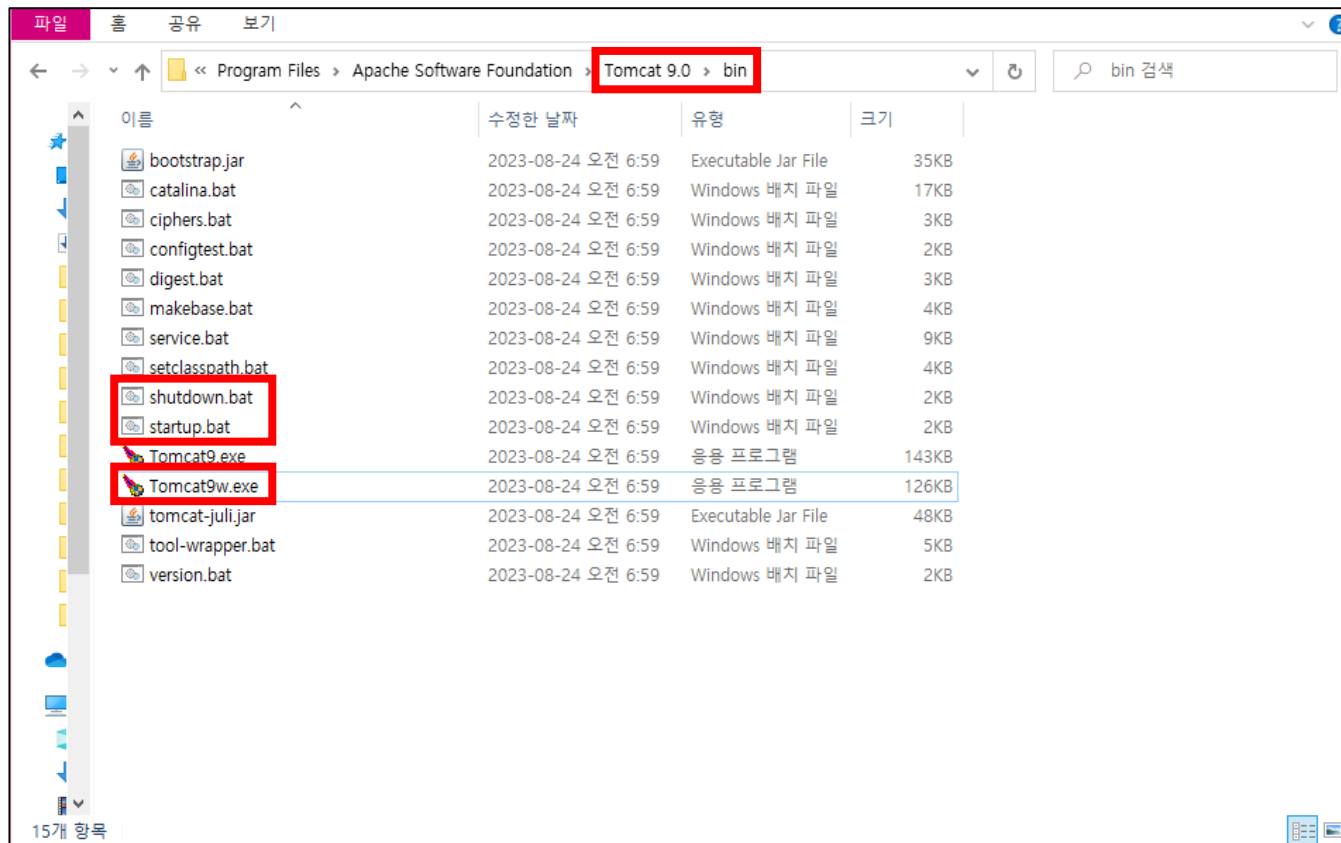
Please see the [README](#) file for packaging information. It explains what every distribution contains.

Binary Distributions

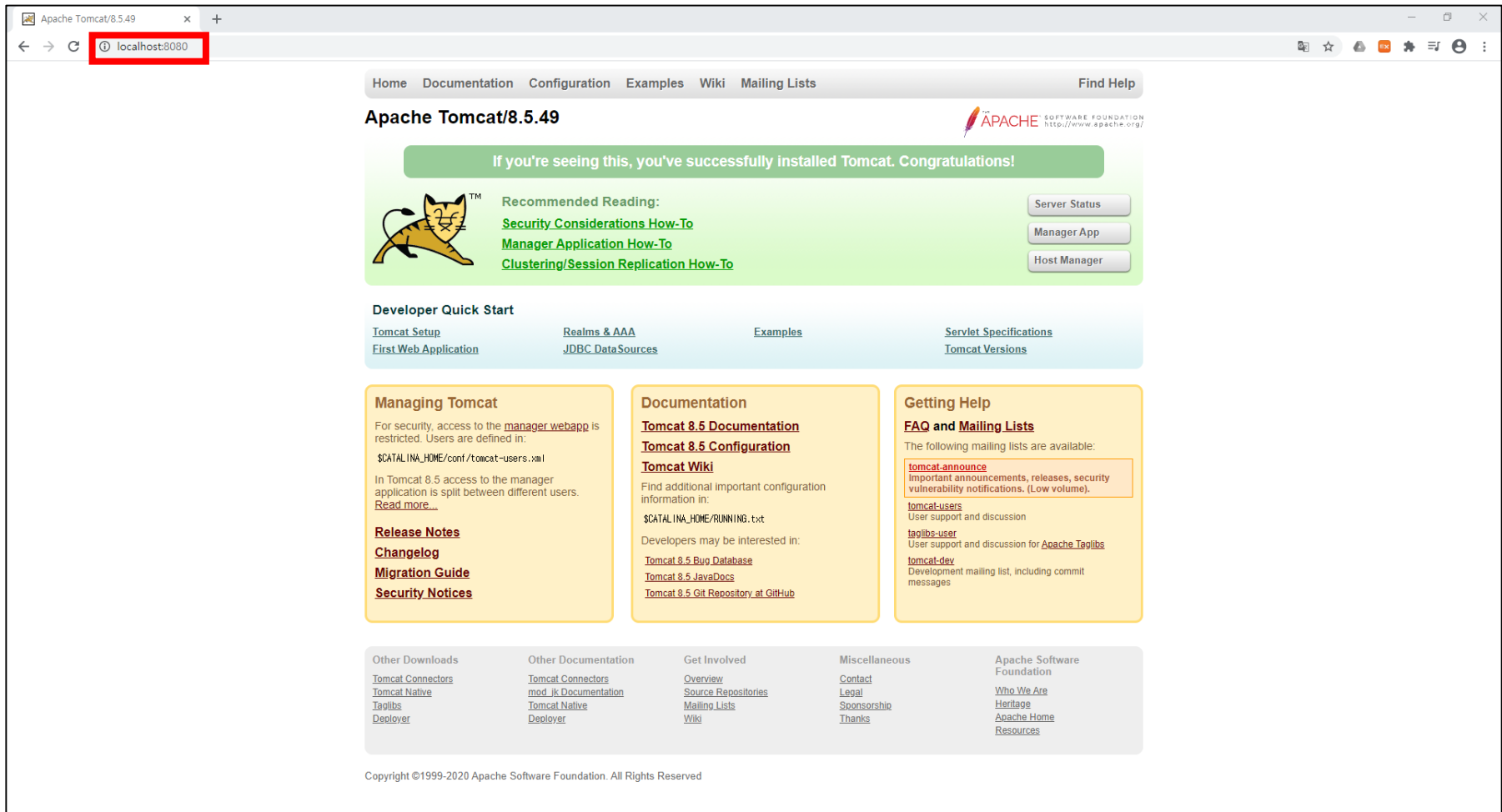
- Core:
 - [zip \(pgp, sha512\)](#)
 - [32-bit Windows zip \(pgp, sha512\)](#)
 - [64-bit Windows zip \(pgp, sha512\)](#)
 - [Self-Extracting Windows zip \(pgp, sha512\)](#)
- Full documentation:
 - [tar.gz \(pgp, sha512\)](#)
- Deployer:
 - [zip \(pgp, sha512\)](#)
 - [tar.gz \(pgp, sha512\)](#)
- Extras:
 - [JMX Remote jar \(pgp, sha512\)](#)
 - [Web services jar \(pgp, sha512\)](#)
- Embedded:
 - [tar.gz \(pgp, sha512\)](#)
 - [zip \(pgp, sha512\)](#)

4) Tomcat 설치 폴더 → “bin” 폴더

- 실행 : “startup.bat” 배치 파일 클릭
 - 종료 : “shutdown.bat” 배치 파일 클릭
- (또는 “Tomcat9w.exe” 으로 실행, 종료 가능)



5) "localhost:8080"을 입력하여 아래와 같은 창이 뜬다면 정상 실행

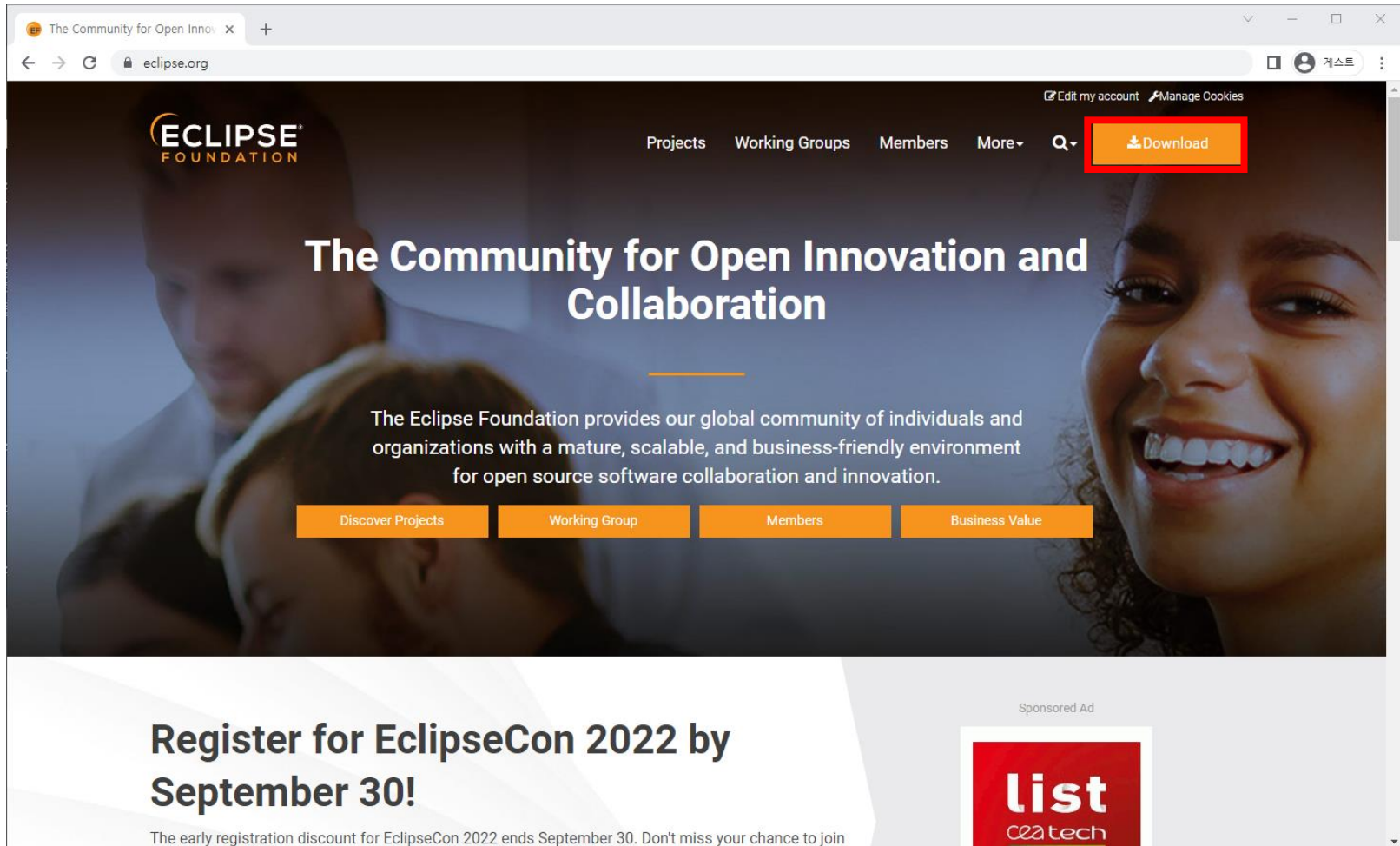


The screenshot shows a web browser window with the address bar set to `localhost:8080`. The page displays the Apache Tomcat/8.5.49 homepage. At the top, there is a navigation bar with links: Home, Documentation, Configuration, Examples, Wiki, Mailing Lists, and a Find Help button. Below this, a green banner reads: "If you're seeing this, you've successfully installed Tomcat. Congratulations!". To the left of this banner is the Tomcat logo. To the right, under "Recommended Reading", there are links to "Security Considerations How-To", "Manager Application How-To", and "Clustering/Session Replication How-To". Further right are buttons for "Server Status", "Manager App", and "Host Manager". Below the banner is a "Developer Quick Start" section with links to "Tomcat Setup", "Realms & AAA", "Examples", "Servlet Specifications", "First Web Application", "JDBC DataSources", and "Tomcat Versions". The main content area is divided into three columns: "Managing Tomcat", "Documentation", and "Getting Help". The "Managing Tomcat" column includes links for "Release Notes", "Changelog", "Migration Guide", and "Security Notices". The "Documentation" column includes links for "Tomcat 8.5 Documentation", "Tomcat 8.5 Configuration", "Tomcat Wiki", and "Tomcat 8.5 Git Repository at GitHub". The "Getting Help" column includes links for "FAQ and Mailing Lists" and "tomcat-dev". At the bottom, there is a footer with "Other Downloads", "Other Documentation", "Get Involved", "Miscellaneous", and "Apache Software Foundation" links. The copyright notice at the bottom reads: "Copyright ©1999-2020 Apache Software Foundation. All Rights Reserved".

Eclipse 설치 및 환경 설정 (1/14)

25/56

1) "https://www.eclipse.org/" 접속 후 "Download" 클릭



2) "Download Packages" 클릭

The screenshot shows the Eclipse Downloads page in a web browser. The browser's address bar displays 'eclipse.org/downloads/'. The page features a header with the text 'Download Eclipse Technology that is right for you'. Below this, there are two sponsored advertisements: one for 'Eclipse Con 2022' and another for 'Fraunhofer FOKUS'. The main content area is divided into two columns. The left column promotes the 'Eclipse IDE 2022-09' and includes a blue box stating 'The Eclipse Installer 2022-09 R now includes a JRE for macOS, Windows and Linux.' Below this, there is a 'Download x86_64' button and a 'Download Packages' button, which is highlighted with a red rectangular box. A 'Need Help?' link is also present. The right column promotes 'OpenJDK Runtimes' and features the 'Temurin' logo and text: 'The Eclipse Temurin™ project provides high-quality, TCK certified OpenJDK runtimes and associated technology for use across the Java™ ecosystem.' Below this, there is a 'Download Now' button and a 'Learn More' link.

Eclipse Downloads | The Eclipse x +

eclipse.org/downloads/

Download Eclipse Technology that is right for you

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Eclipse Con 2022

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3) "Eclipse IDE for Enterprise Java and Web Developers"

→ OS에 맞는 버전 선택

The screenshot shows the Eclipse IDE download page. The browser address bar displays "eclipse.org/downloads/packages/". The page features a dark blue header with statistics: "Find out more", "532,973 Installer Downloads", and "223,046 Package Downloads and Updates". Below this, the section "Eclipse IDE 2022-09 R Packages" lists three IDEs: "Eclipse IDE for Java Developers", "Eclipse IDE for Enterprise Java and Web Developers" (highlighted with a red box), and "Eclipse IDE for C/C++ Developers". Each IDE entry includes its size, download count, a description, and a list of operating systems and architectures. The "Eclipse IDE for Enterprise Java and Web Developers" entry shows "Windows x86_64" (highlighted with a red box) as the selected option. On the right side, there is a section titled "Get Eclipse IDE 2022-09" with a "Download x86_64" button. Below this, there are sections for "RELATED LINKS" and "MORE DOWNLOADS".

Eclipse Packages | The Eclipse Foundation

eclipse.org/downloads/packages/

Find out more
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Eclipse IDE 2022-09 R Packages

Eclipse IDE for Java Developers
296 MB 144,640 DOWNLOADS
The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Maven and Gradle integration

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502 MB 52,078 DOWNLOADS
Tools for developers working with Java and Web applications, including a Java IDE, tools for JavaScript, TypeScript, JavaServer Pages and Faces, YAML, Markdown, Web Services, JPA and Data Tools, Maven and Gradle, Git, and more.
Click here to open a bug report with the Eclipse Web Tools Platform.
Click here to raise an issue with the Eclipse Platform.
Click here to raise an issue with Maven integration for web projects.
Click here to raise an issue with Eclipse Wild Web Developer (incubating).

Eclipse IDE for C/C++ Developers
345 MB 12,659 DOWNLOADS
An IDE for C/C++ developers.

Eclipse IDE for Eclipse Committers

The Eclipse Installer 2022-09 R now includes a JRE for macOS, Windows and Linux.

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Install your favorite desktop IDE packages.
Download x86_64
Download Packages | Need Help?

RELATED LINKS

- Compare & Combine Packages
- New and Noteworthy
- Install Guide
- Documentation
- Updating Eclipse
- Forums
- Simultaneous Release

MORE DOWNLOADS

- Other builds
- Eclipse 2022-09 (4.25)

4) "Download" 클릭 후 압축 해제

(다운로드가 느리다면 "Select Another Mirror" → "Korea, Republic Of" 선택)

The screenshot shows the Eclipse Foundation download page for the file `eclipse-jee-2022-09-R-win32-x86_64.zip`. The page has a dark header with the Eclipse Foundation logo and navigation links. Below the header, there's a breadcrumb trail: Home / Downloads / Eclipse downloads - Select a mirror. A disclaimer states that all downloads are provided under the terms and conditions of the Eclipse Foundation Software User Agreement unless otherwise specified.

The main content area features a large orange **Download** button. Below it, the download source is listed as **Download from: Japan - Yamagata University (https)**. The file name and SHA-512 hash are displayed: **File: eclipse-jee-2022-09-R-win32-x86_64.zip** and **SHA-512**. A red box highlights the **>> Select Another Mirror** link.

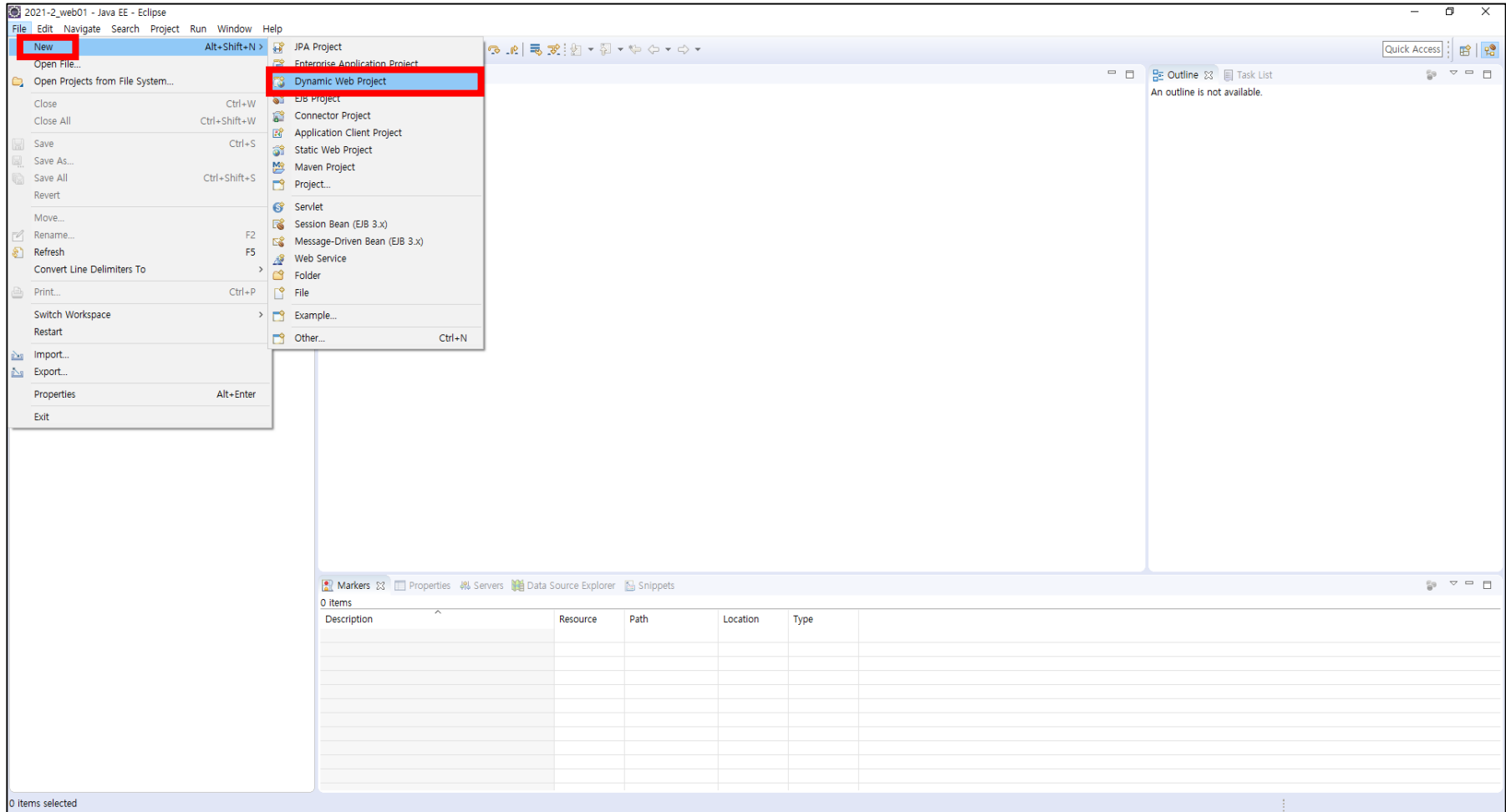
A modal dialog titled "Choose a mirror close to you" is open, showing a list of mirrors. The mirrors are categorized by region: Asia, Europe, and Main Download Site. Under the Asia category, the mirrors listed are: Japan - Yamagata University, Japan - Japan Advanced Institute of Science and Technology, **Korea, Republic Of - Kakao Corp.** (highlighted with a red box), China - Dalian Neusoft University of Information (大连东软信息学院), Cyprus - University of Cyprus, Library, and China - eScience Center, Nanjing University. A **Show all** button is at the bottom of the list.

On the right side of the page, there is a sponsored ad for Red Hat Developer and a section titled "Other options for this file" which includes links for "All mirrors (xml)", "Direct link to file (download starts immediately from best mirror)", and "Related Links" (Donate, Becoming a mirror site, Updating and installing).

Eclipse 설치 및 환경 설정 (5/14)

29/56

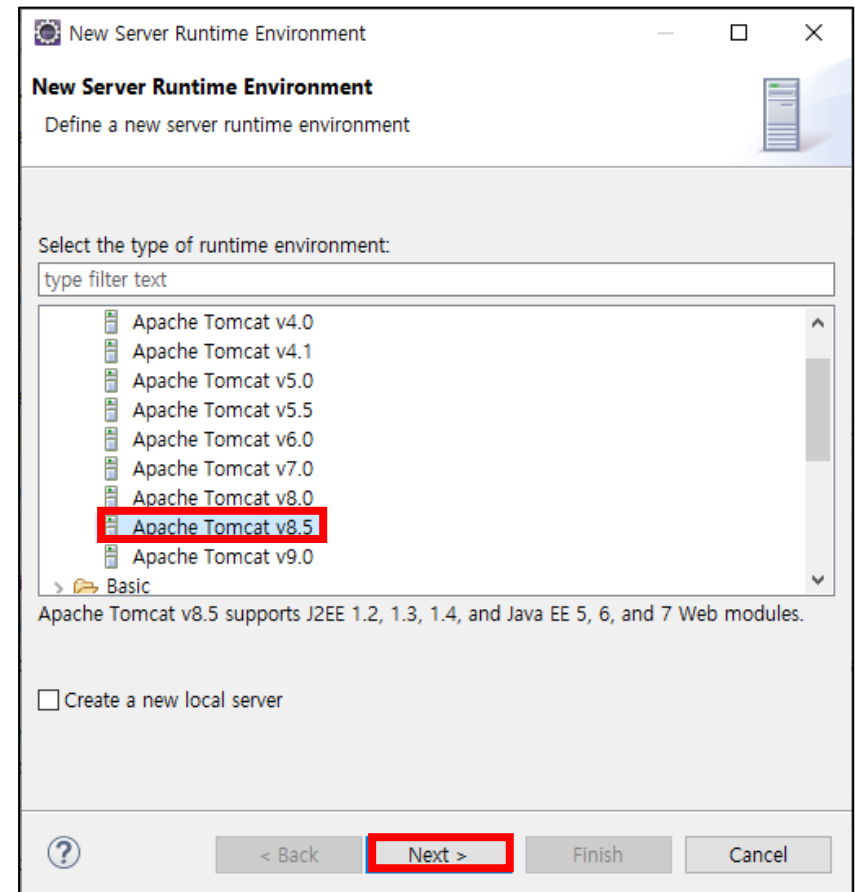
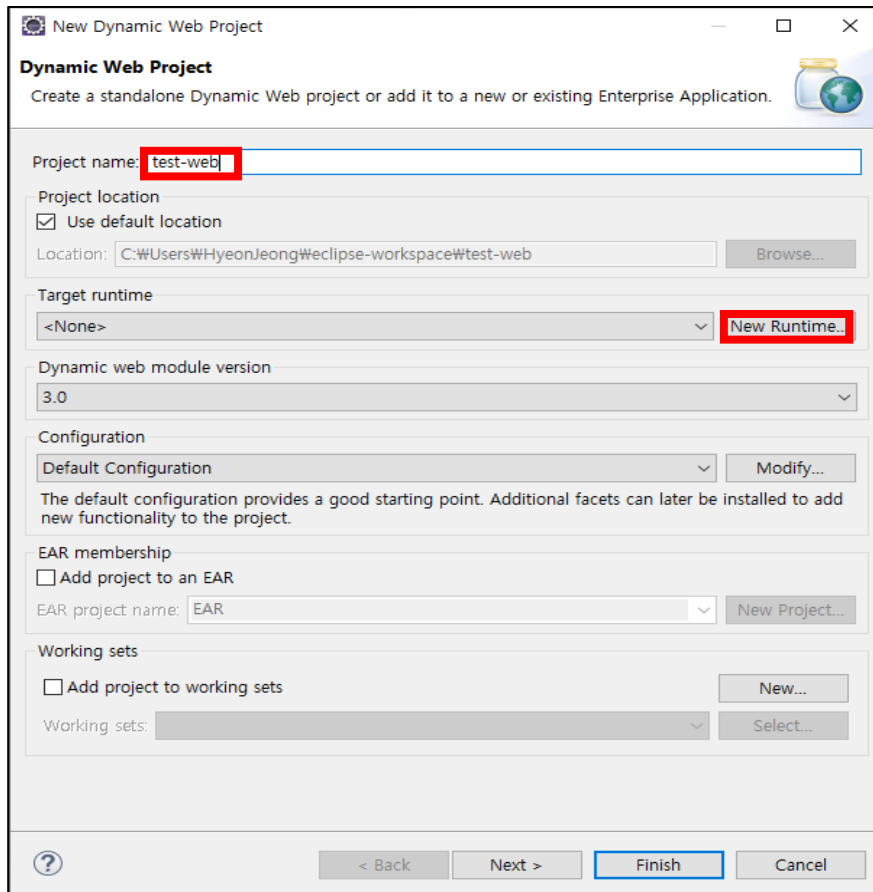
5) "eclipse.exe" 실행 후 "File" → "New " → "Dynamic Web Project" 클릭



Eclipse 설치 및 환경 설정 (6/14)

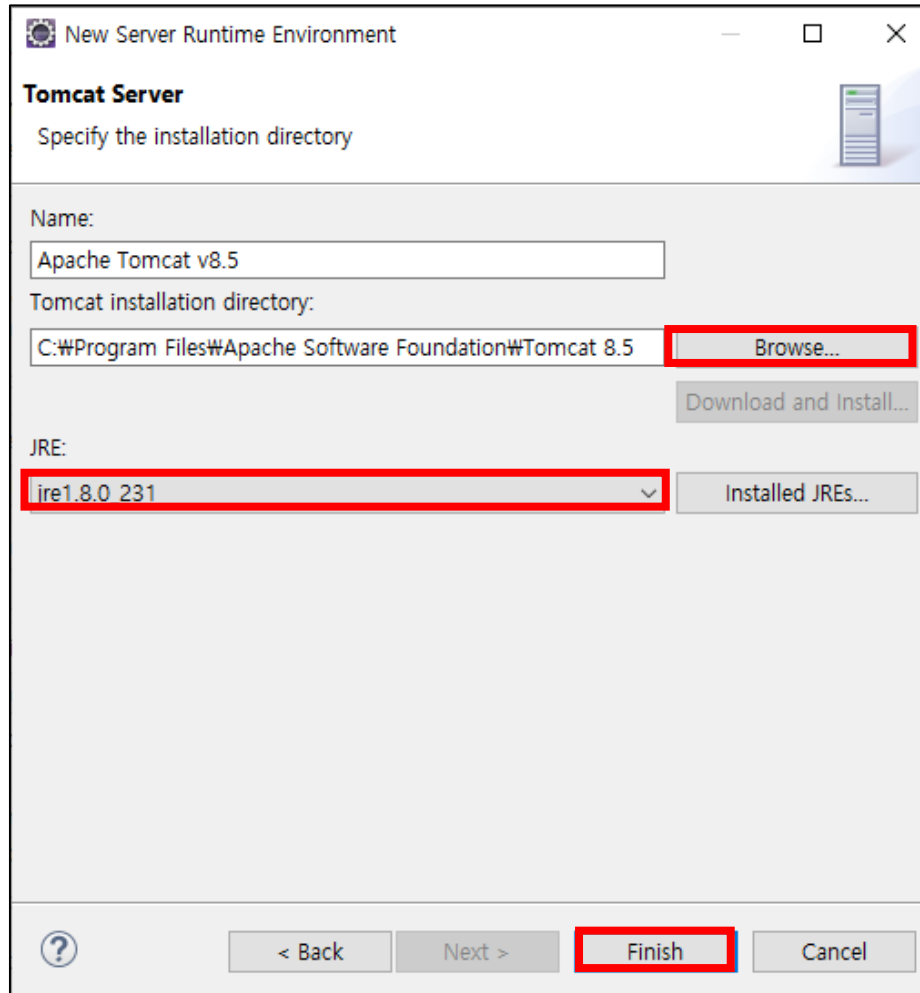
30/56

- 6) Project name 입력 후 “Target runtime” 설정을 위해 “New Runtime” 클릭
- 7) “Apache Tomcat v8.5” 선택 후 “Next” 클릭

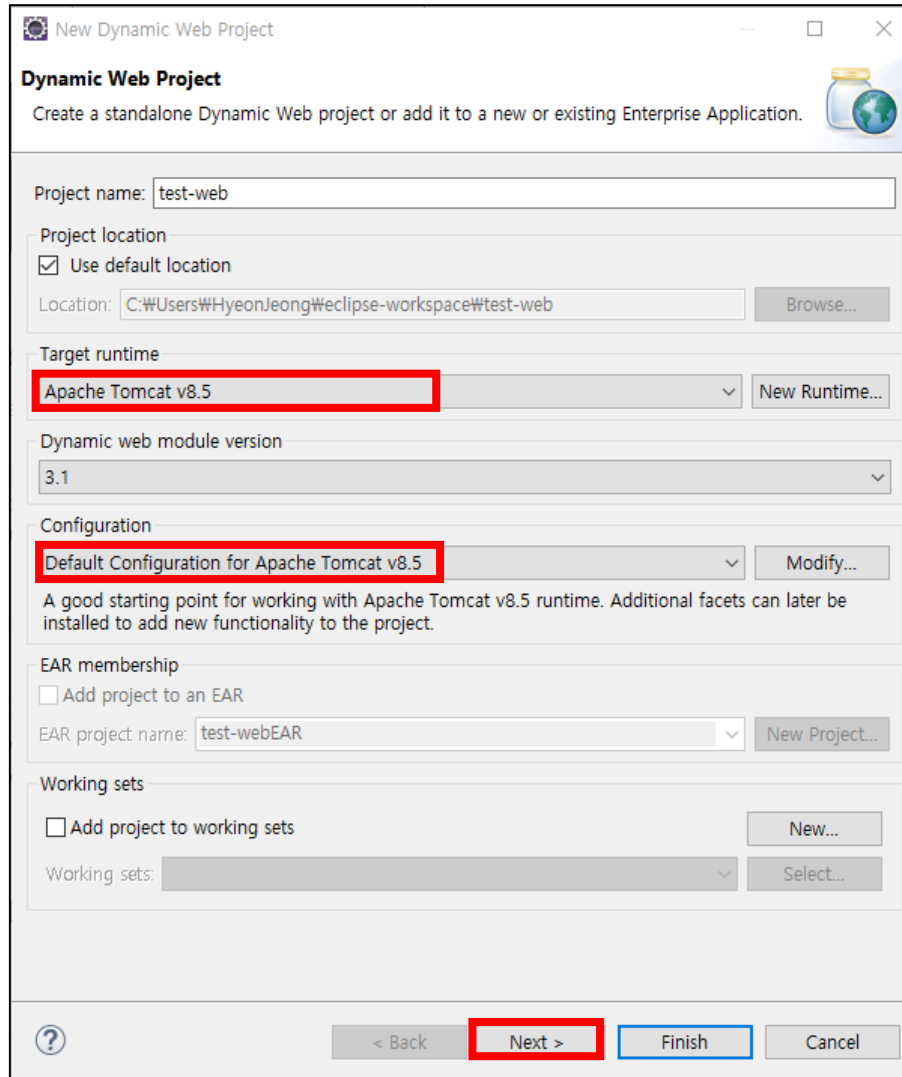


8) "Browse"를 클릭하여 Tomcat을 설치 폴더 선택

9) 본인 PC에 설치한 jre 선택 후 "Finish" 클릭



10) "Target runtime"과 "Configuration"의 변경을 확인한 후 "Next" 클릭



New Dynamic Web Project

Dynamic Web Project
Create a standalone Dynamic Web project or add it to a new or existing Enterprise Application.

Project name: test-web

Project location
☒ Use default location
Location: C:\Users\HyeonJeong\workspace\test-web Browse...

Target runtime
Apache Tomcat v8.5 New Runtime...

Dynamic web module version
3.1

Configuration
Default Configuration for Apache Tomcat v8.5 Modify...
A good starting point for working with Apache Tomcat v8.5 runtime. Additional facets can later be installed to add new functionality to the project.

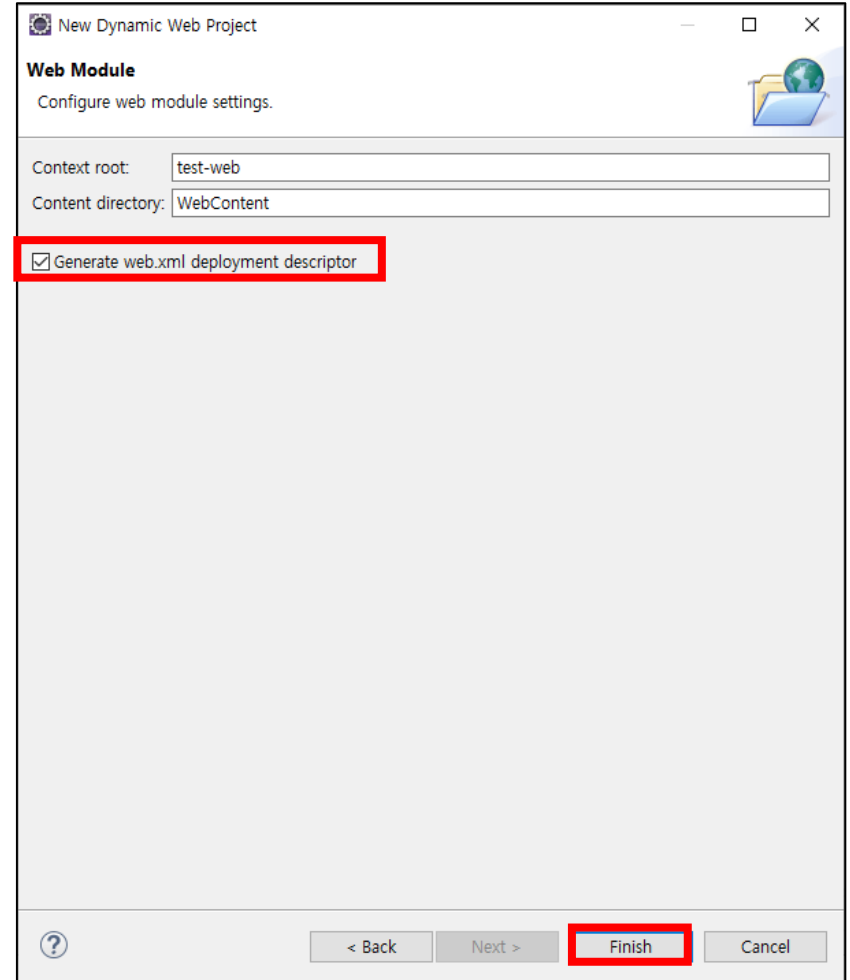
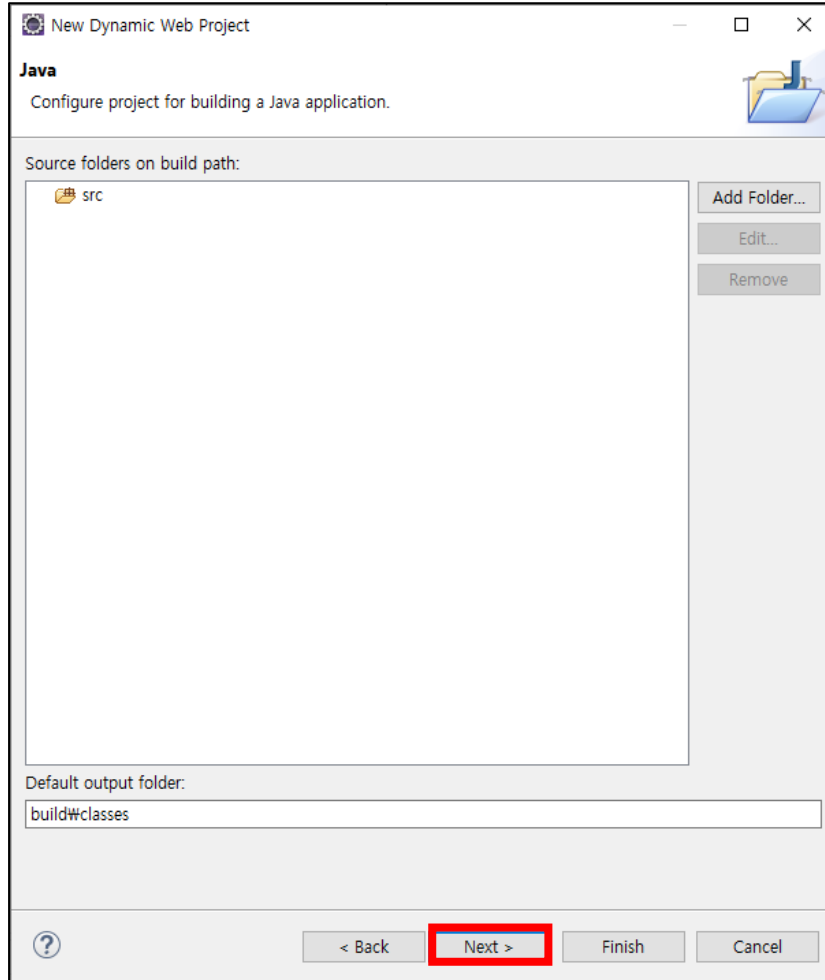
EAR membership
☐ Add project to an EAR
EAR project name: test-webEAR New Project...

Working sets
☐ Add project to working sets New...
Working sets: Select...

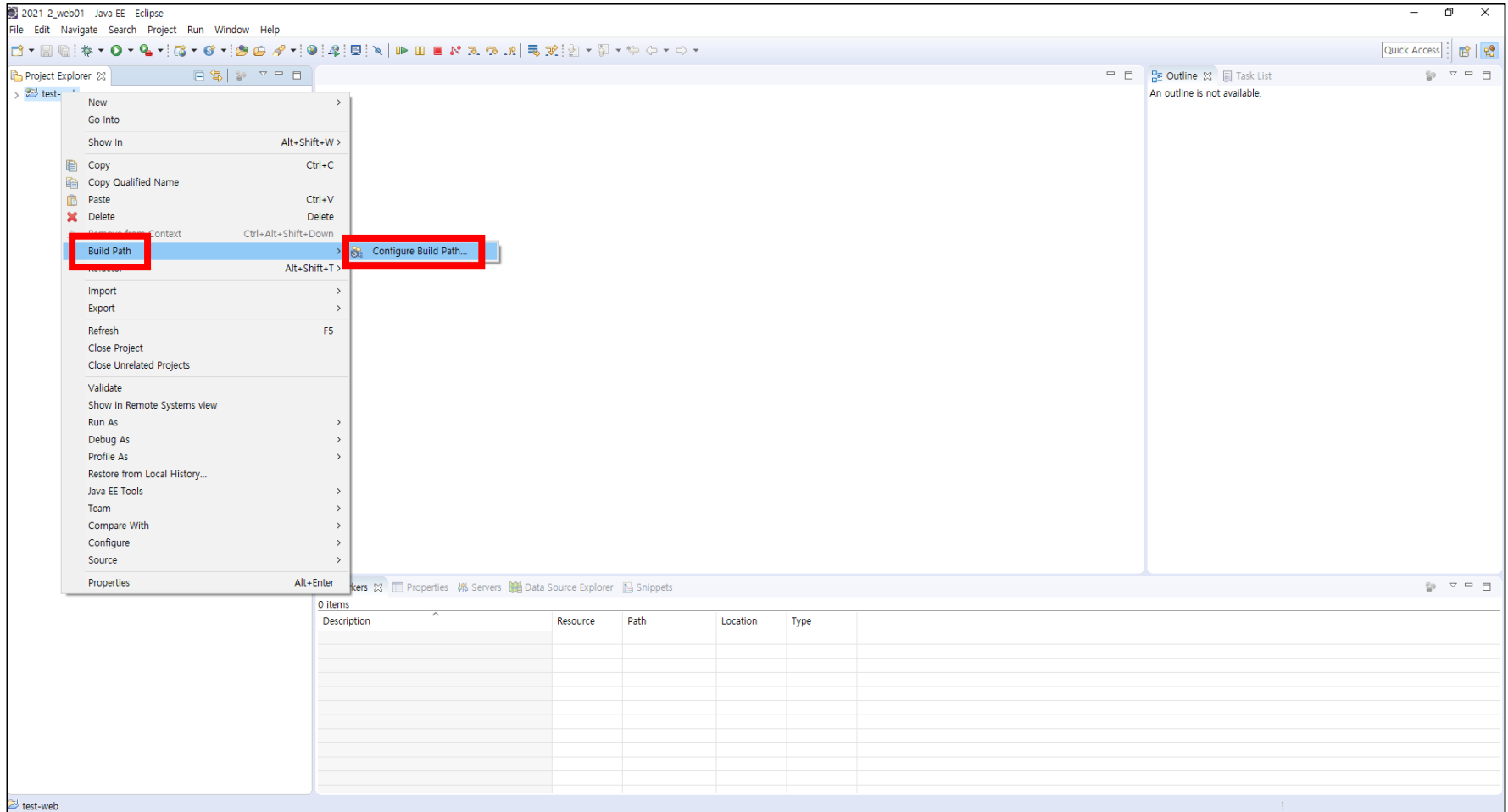
? < Back **Next >** Finish Cancel

11) "Next" 클릭

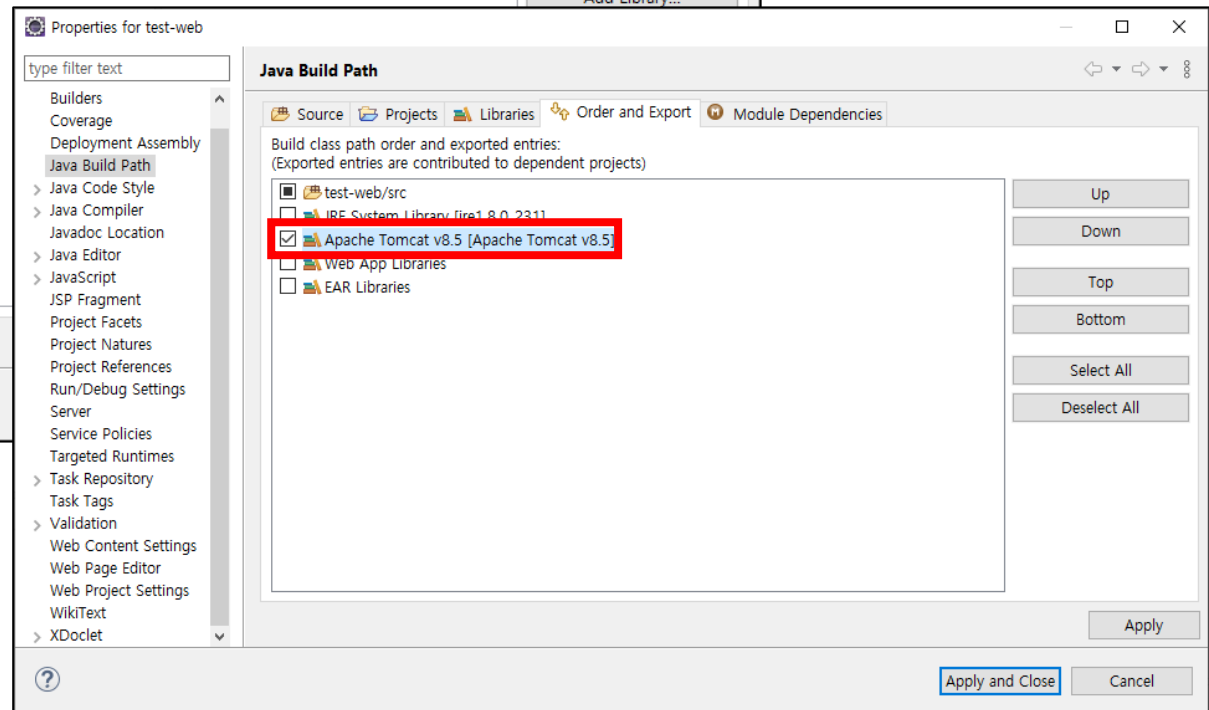
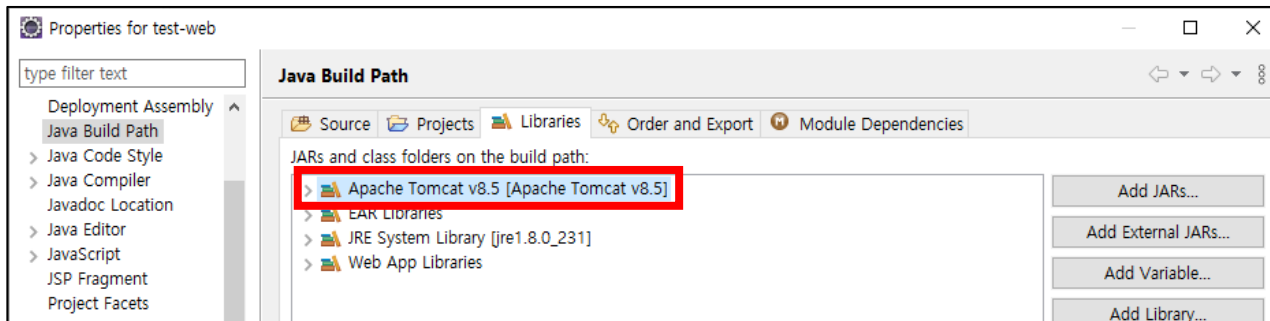
12) 체크 박스 클릭 후 "Finish" 클릭



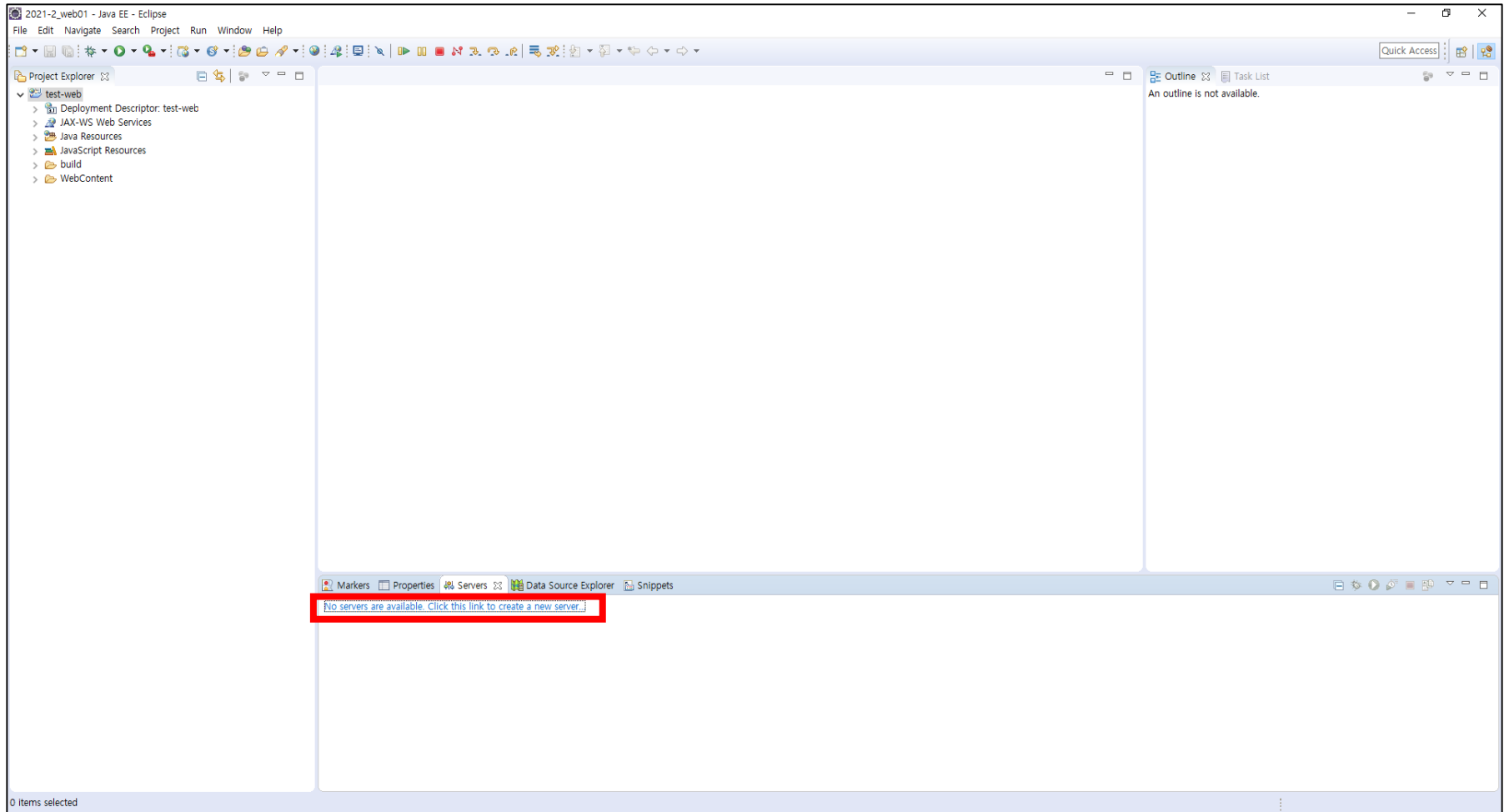
13) 생성된 프로젝트 우 클릭 → “Build Path” → “Configure Build Path” 클릭



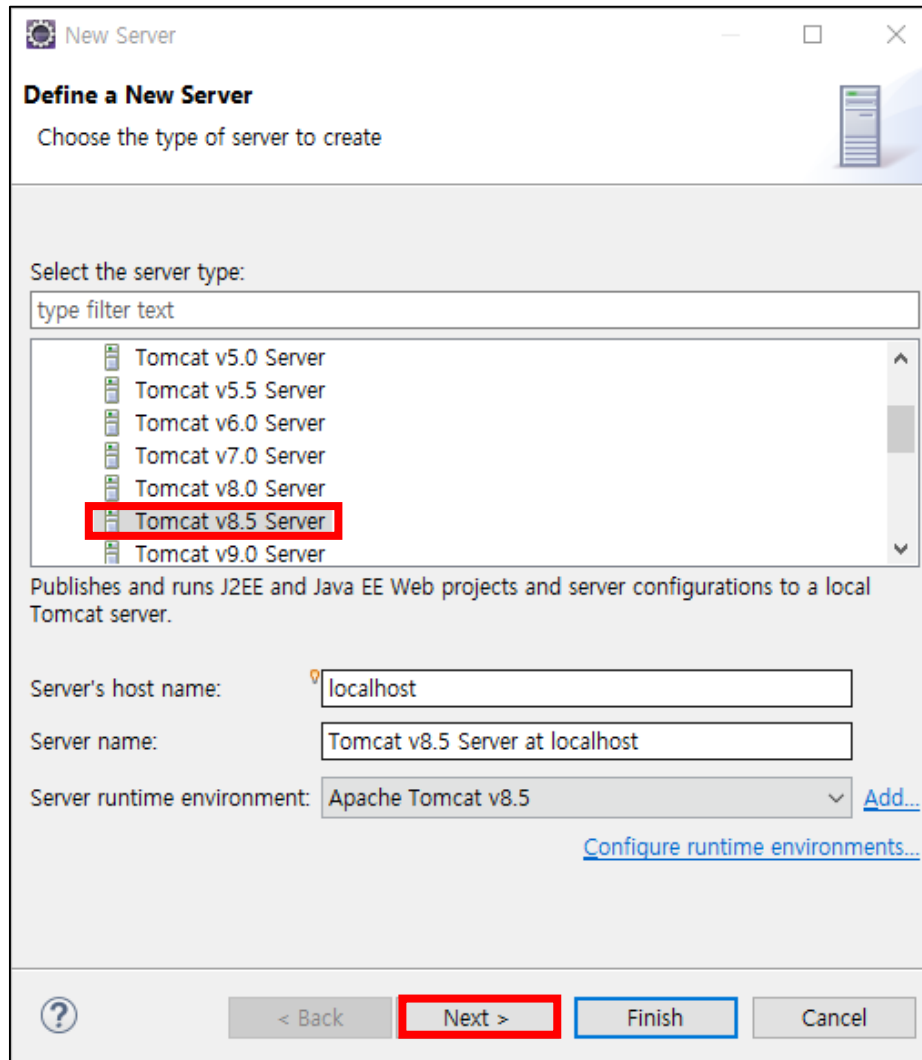
14) “Java Build Path”의 “Libraries”에서 Tomcat 확인 및 “Order and Export”에서 Tomcat의 체크박스 확인 후 “Apply and Close”클릭



15) 서버 생성을 위해 화면 하단의 “Server” 탭의 링크 클릭

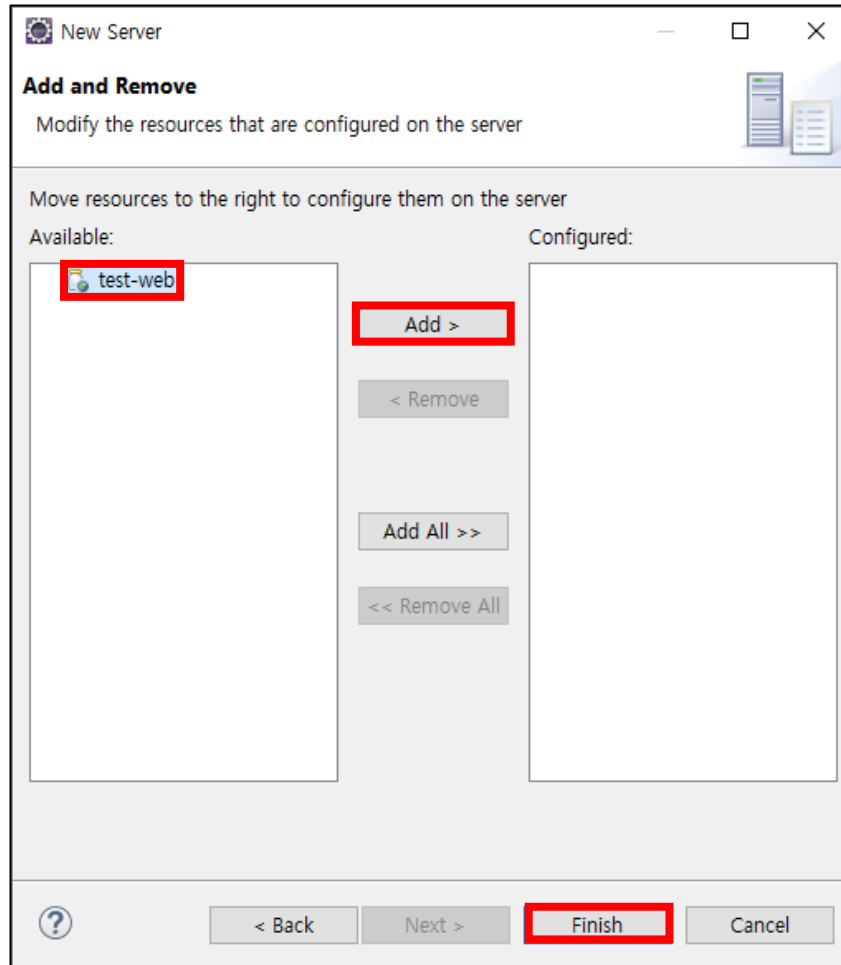


16) 설치한 Tomcat 버전 선택 후 “Next” 클릭



17) 생성된 프로젝트 선택 후 “Add”를 클릭하여 추가

18) “Finish” 클릭

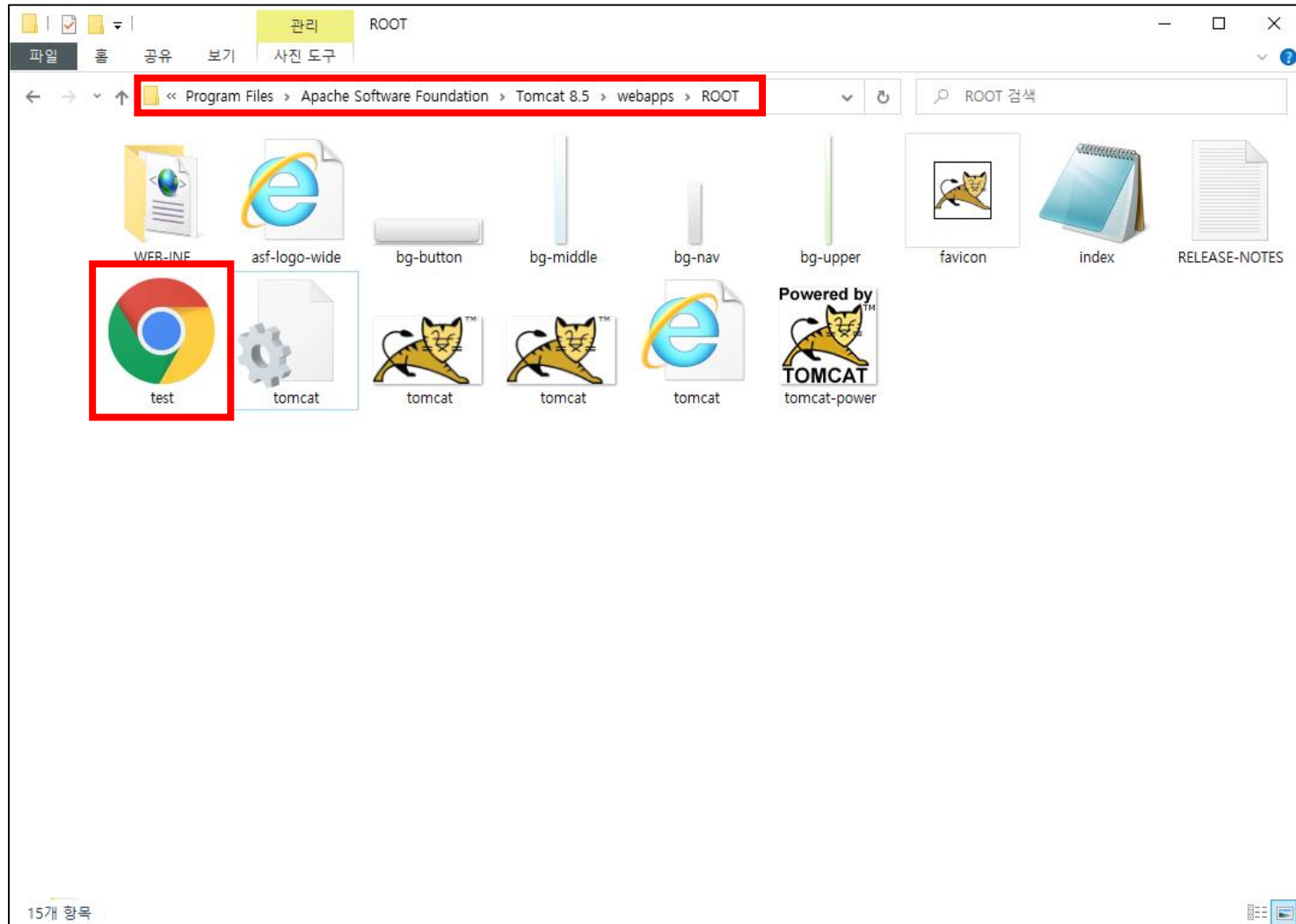


1) "test.html" 파일 생성

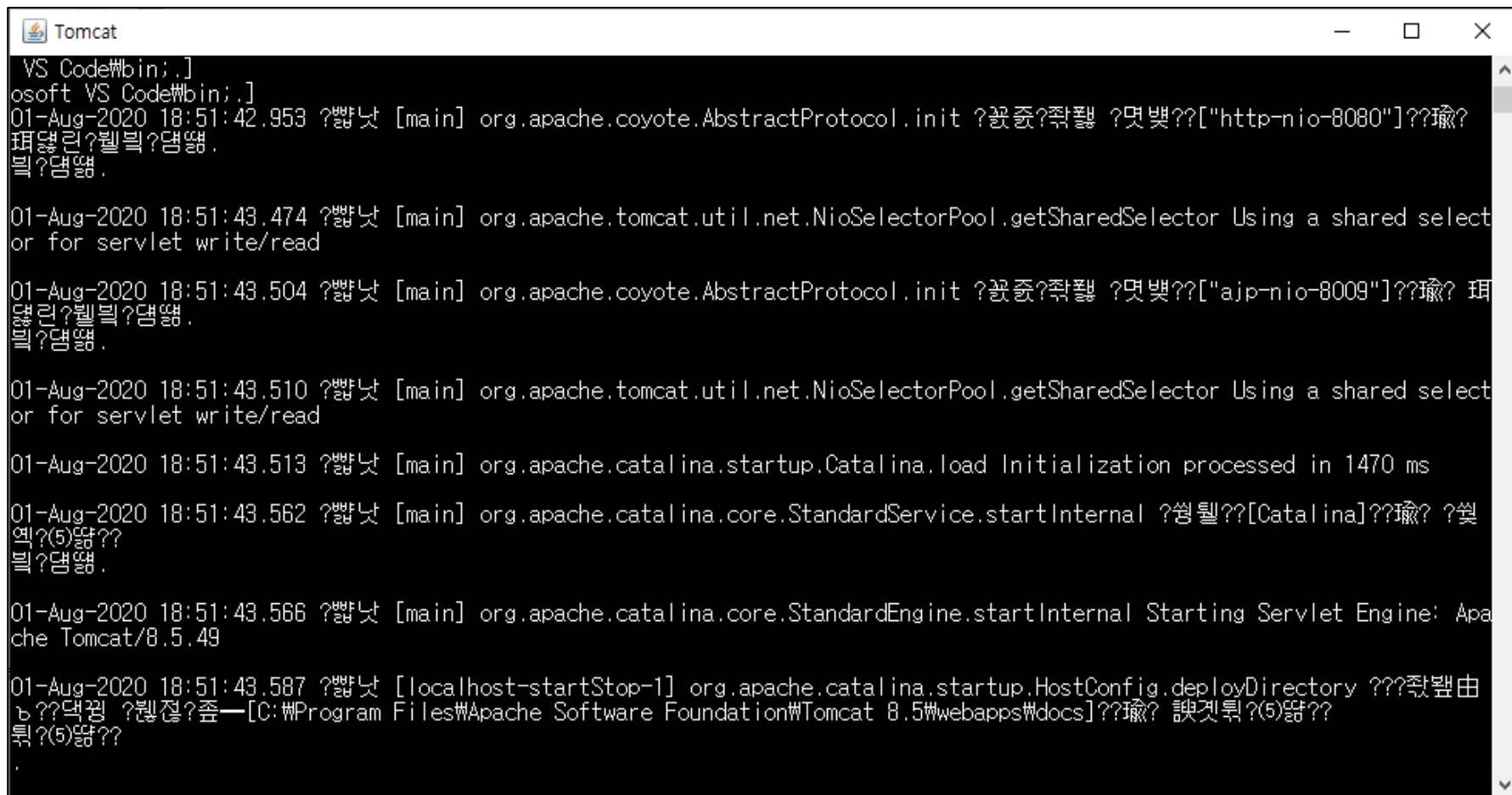
<test.html>

```
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
    <title>테스트</title>
</head>
<body>
테스트
</body>
</html>
```


2) Tomcat 설치 폴더 → webapps → ROOT로 생성한 “test.html” 이동



3) Tomcat 실행



```
VS Code\bin;.]
osoft VS Code\bin;.]
01-Aug-2020 18:51:42.953 ?뽕뽕 [main] org.apache.coyote.AbstractProtocol.init ?꿇꿇?쥬쥬 ?뽕뽕?["http-nio-8080"]??瑜?
玊뽕린?뽕뽕?뽕뽕.
뽕?뽕뽕.

01-Aug-2020 18:51:43.474 ?뽕뽕 [main] org.apache.tomcat.util.net.NioSelectorPool.getSharedSelector Using a shared select
or for servlet write/read

01-Aug-2020 18:51:43.504 ?뽕뽕 [main] org.apache.coyote.AbstractProtocol.init ?꿇꿇?쥬쥬 ?뽕뽕?["ajp-nio-8009"]??瑜? 玊
뽕린?뽕뽕?뽕뽕.
뽕?뽕뽕.

01-Aug-2020 18:51:43.510 ?뽕뽕 [main] org.apache.tomcat.util.net.NioSelectorPool.getSharedSelector Using a shared select
or for servlet write/read

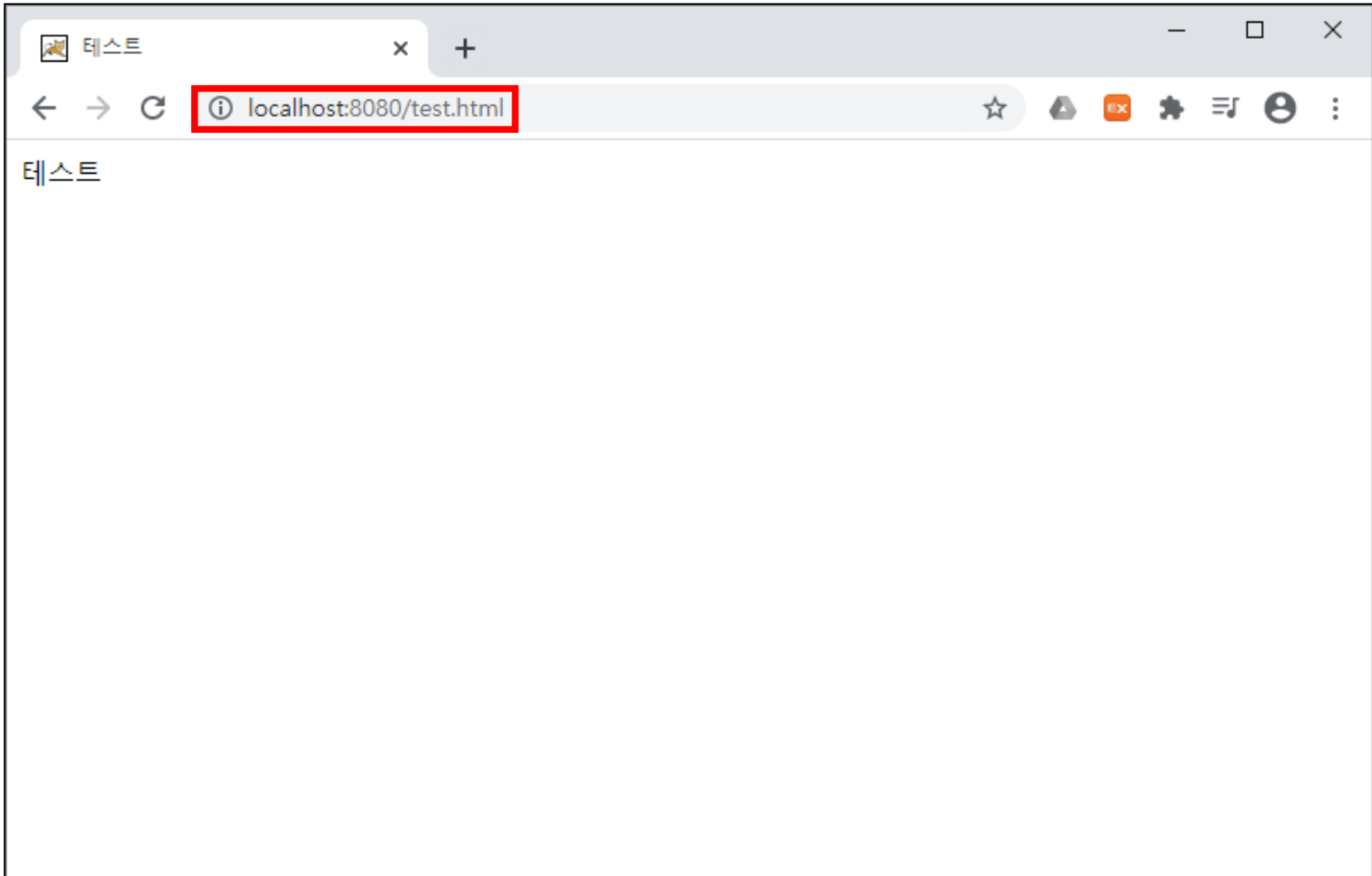
01-Aug-2020 18:51:43.513 ?뽕뽕 [main] org.apache.catalina.startup.Catalina.load Initialization processed in 1470 ms

01-Aug-2020 18:51:43.562 ?뽕뽕 [main] org.apache.catalina.core.StandardService.startInternal ?쥬쥬??[Catalina]??瑜? ?쥬
쥬?(5)쥬??
뽕?뽕뽕.

01-Aug-2020 18:51:43.566 ?뽕뽕 [main] org.apache.catalina.core.StandardEngine.startInternal Starting Servlet Engine: Apa
che Tomcat/8.5.49

01-Aug-2020 18:51:43.587 ?뽕뽕 [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory ???쥬쥬由
? ??뽕쥬 ?쥬쥬?쥬—[C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps\docs]??瑜? 玊쥬쥬?(5)쥬??
쥬?(5)쥬??
```

4) “http://localhost:8080/test.html”을 입력하여 “test.html” 파일 실행



Tomcat에서 jQuery를 이용한 Ajax 예제 실행 (1/3) 43/56

1) "ajax.html" 파일 및 testfile1.txt 파일 생성

<ajax.html>

```
<!DOCTYPE html>
<html>
<head>
    <script src="http://code.jquery.com/jquery-1.10.1.js"> </script>
    <script>
        $(document).ready(function () {
            $("button").click(function () {
                $("#target").load("testfile1.txt");
            });
        });
    </script>
</head>
<body>
    <div id="target" style="width: 300px; height: 60px; border: solid 1px black">
    </div>
    <button>Get Data</button>
</body>
</html>
```

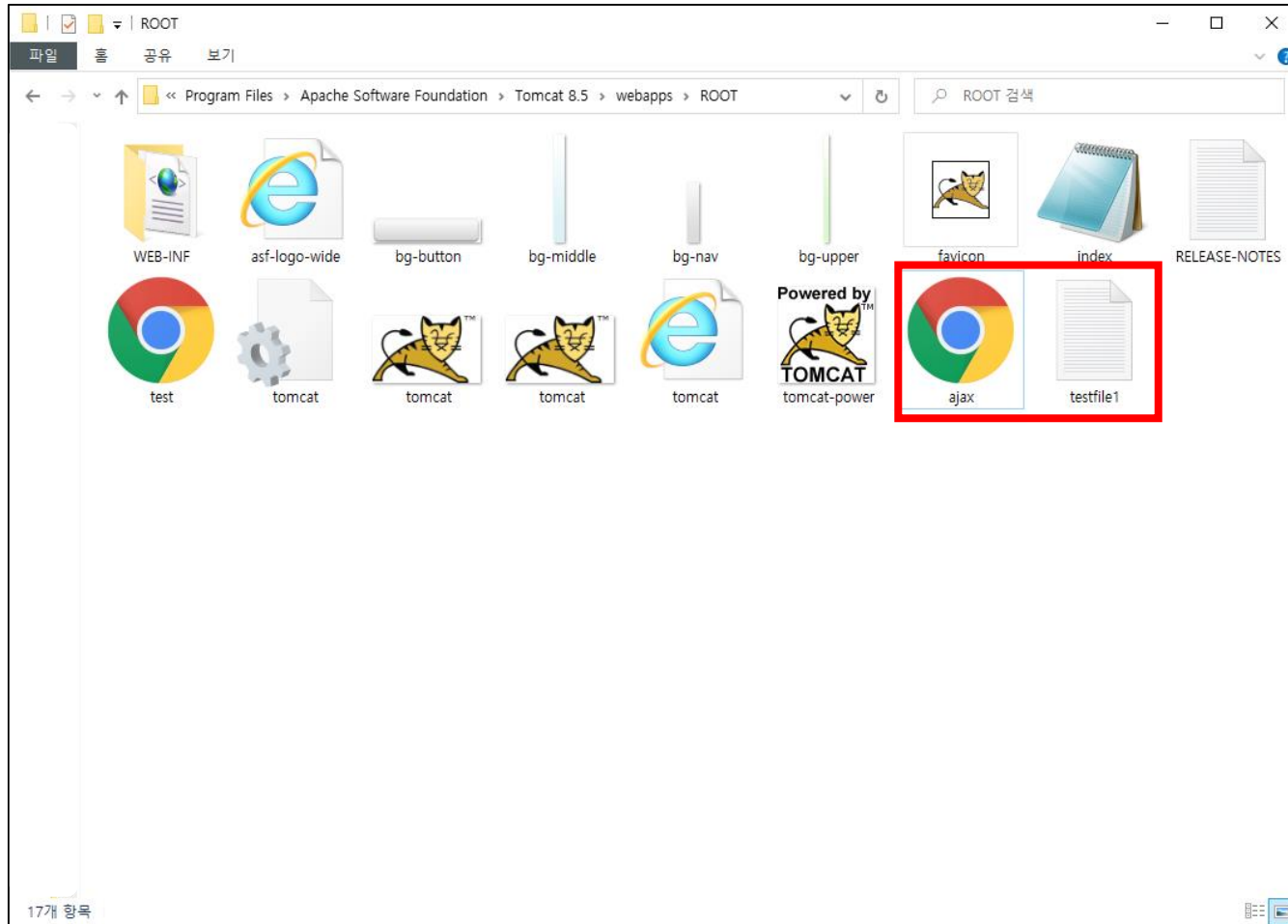
<testfile1.txt>

Ajax는 Asynchronous JavaScript and XML의 약자입니다.
Ajax는 동적인 대화형 웹페이지를 만듭니다.

Tomcat에서 jQuery를 이용한 Ajax 예제 실행 (2/3) 44/56

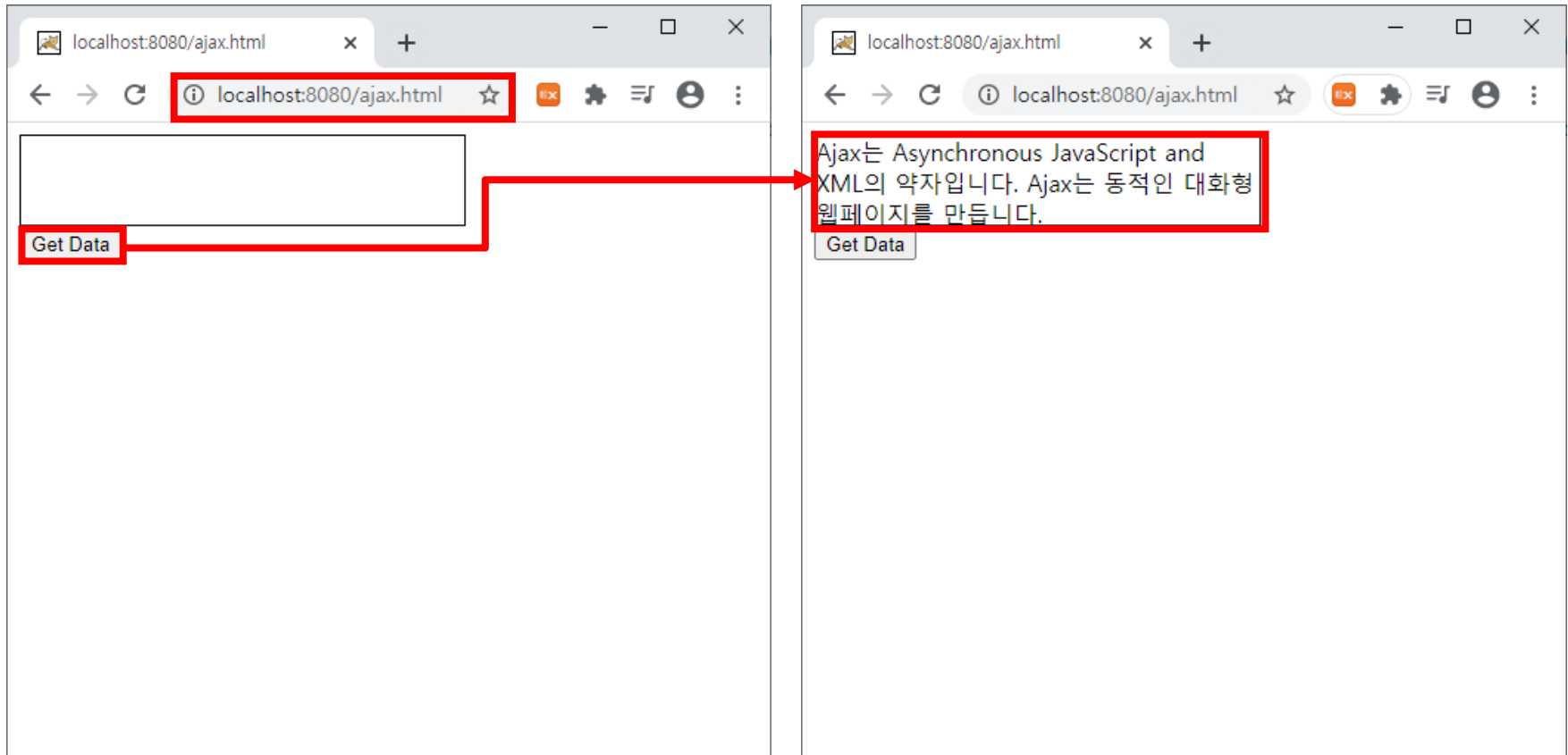
2) Tomcat 설치 폴더 → webapps → ROOT로 생성한 "ajax.html"과 "testfile1.txt" 이동

3) Tomcat 실행



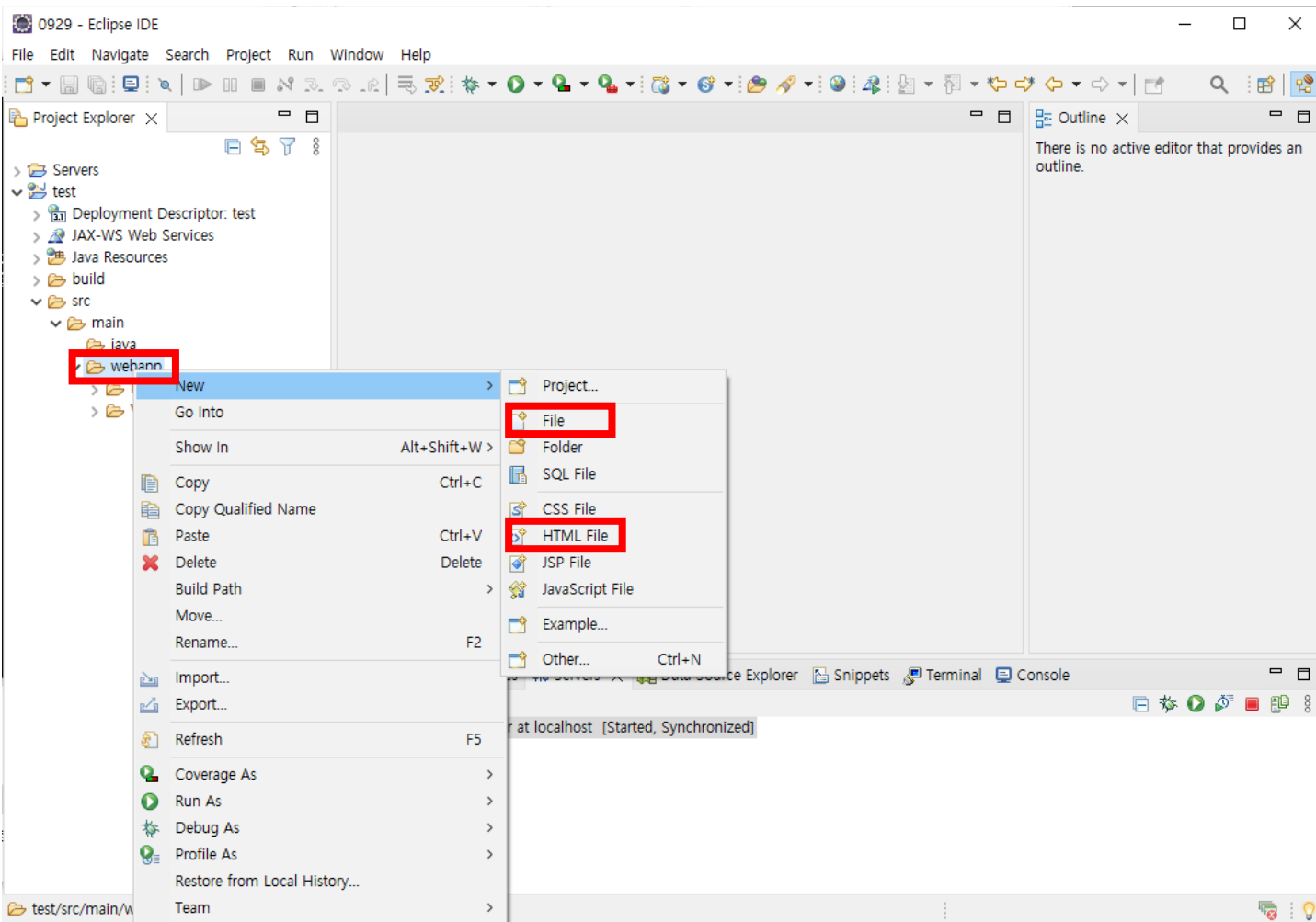
Tomcat에서 jQuery를 이용한 Ajax 예제 실행 (3/3) 45/56

4) “http://localhost:8080/ajax.html”을 입력하여 “ajax.html” 파일 실행



Eclipse에서 jQuery를 이용한 Ajax 예제 실행(1/6) 46/56

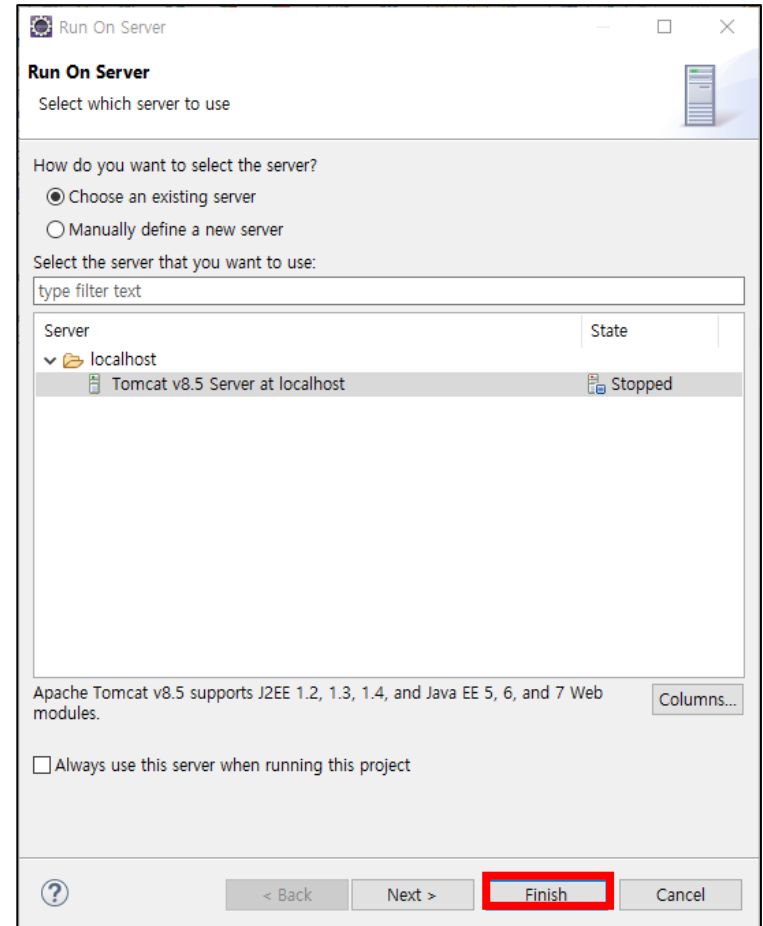
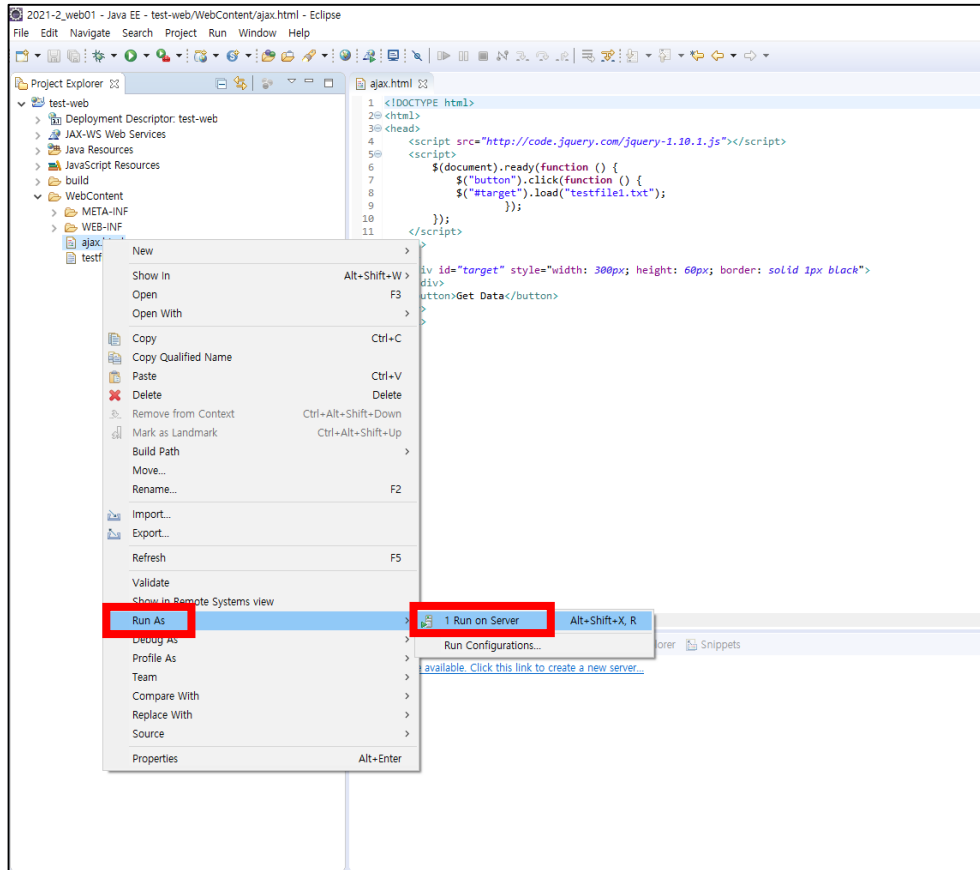
1) “WebApp” 우 클릭 → “New” → “File”과 “HTML File”을 클릭하여 “testfile1.txt”와 “ajax.html” 생성



Eclipse에서 jQuery를 이용한 Ajax 예제 실행(2/6) 47/56

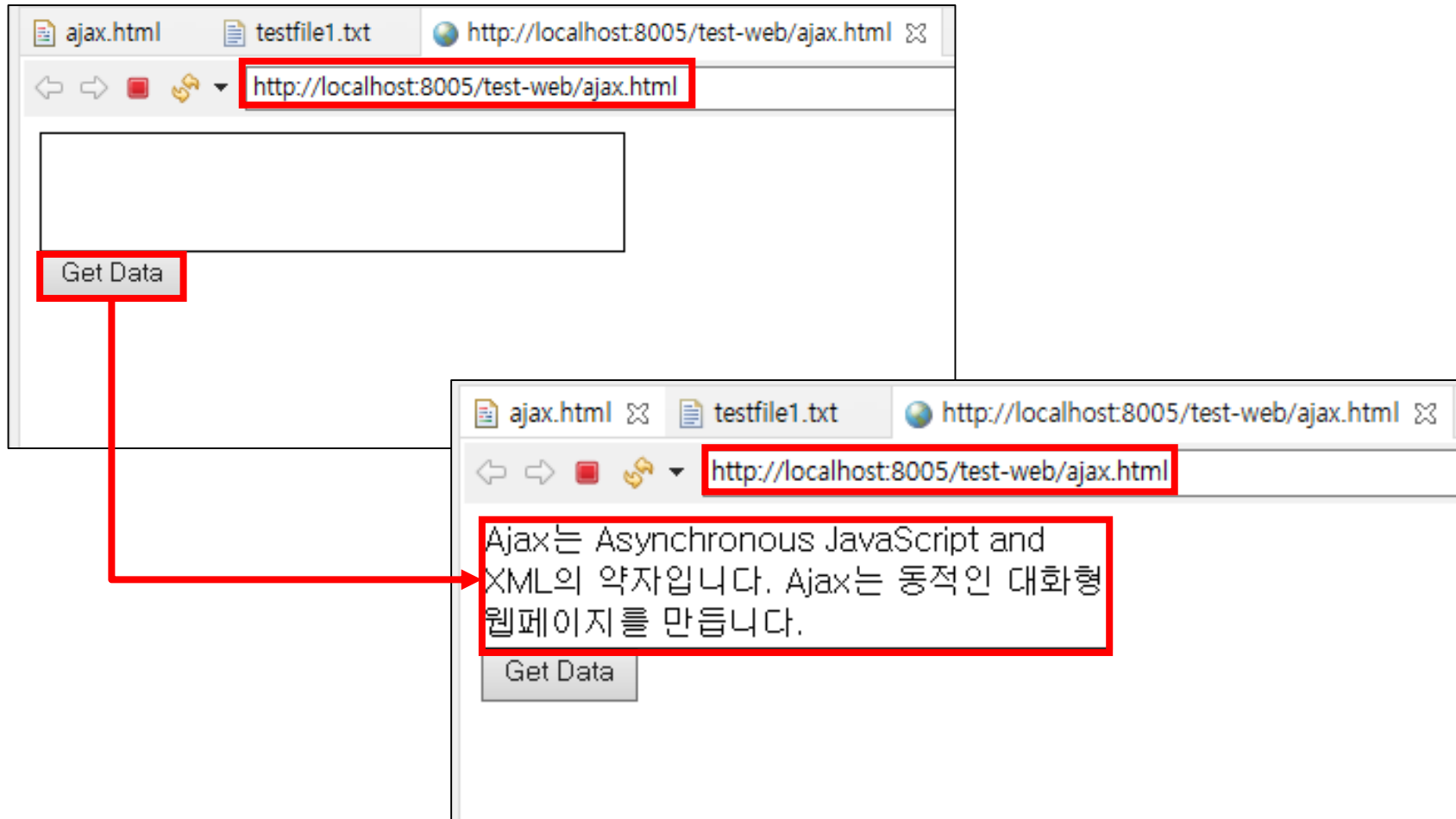
2) "ajax.html" 실행을 위해 해당 파일 우 클릭 → "Run As" → "Run on Server"클릭

3) "Finish" 클릭



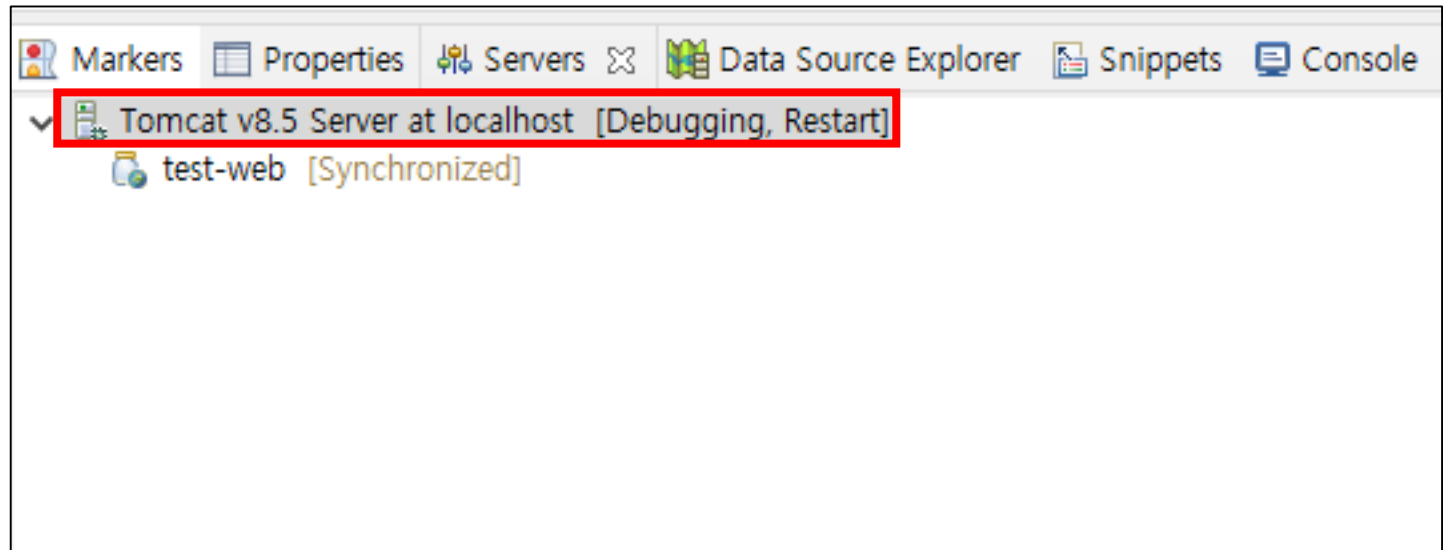
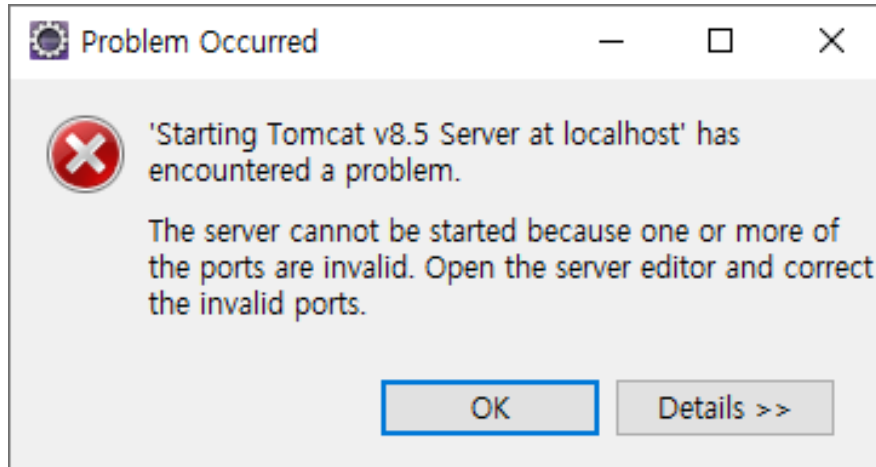
Eclipse에서 jQuery를 이용한 Ajax 예제 실행(3/6) 48/56

4) "ajax.html" 실행 확인



Eclipse에서 jQuery를 이용한 Ajax 예제 실행(4/6) 49/56

5) 아래와 같은 오류가 발생할 경우 "OK" 클릭 후, 하단에 표시된 부분을 더블 클릭



Eclipse에서 jQuery를 이용한 Ajax 예제 실행(5/6) 50/56

6) 아래와 같이 포트 번호를 수정

The screenshot shows the Eclipse IDE interface with the 'Tomcat v8.5 Server at localhost' configuration page. The 'Ports' section is highlighted with a red box, showing the following configuration:

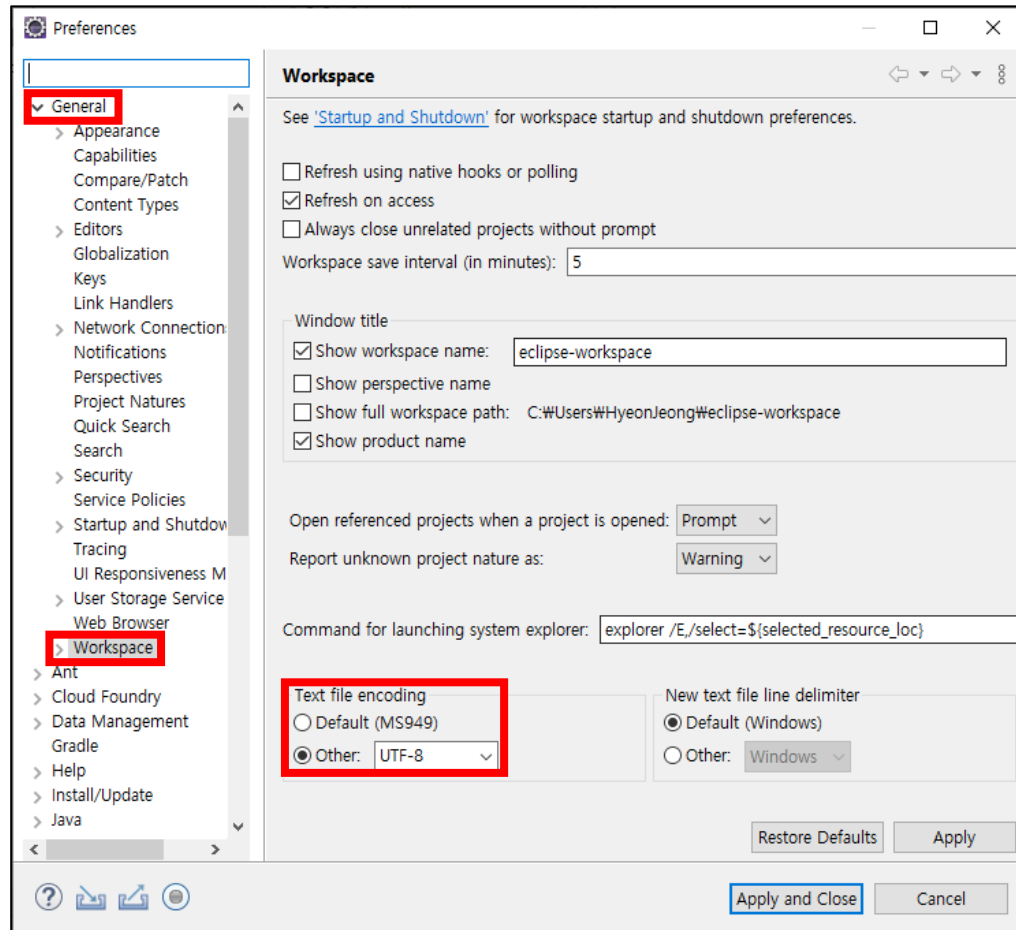
Port Name	Port Number
Tomcat admin port	8081
HTTP/1.1	8005

The 'Overview' tab is selected, and the 'Server Locations' and 'Server Options' sections are visible. The 'Server path' is set to '.metadata\plugins\org.eclipse.wst.server.core\'. The 'Deploy path' is set to 'wtpwebapps'. The 'Server Options' section shows that 'Modules auto reload by default' is checked.

Eclipse에서 jQuery를 이용한 Ajax 예제 실행(6/6) 51/56

7) 한글이 정상 출력이 되지 않는 경우, 상단 메뉴 바에서 “Window” → “Preferences” → “General” → “Workspace” 클릭

8) “Text file encoding”의 “Other”에서 “UTF-8” 선택 후 “Apply and Close” 클릭

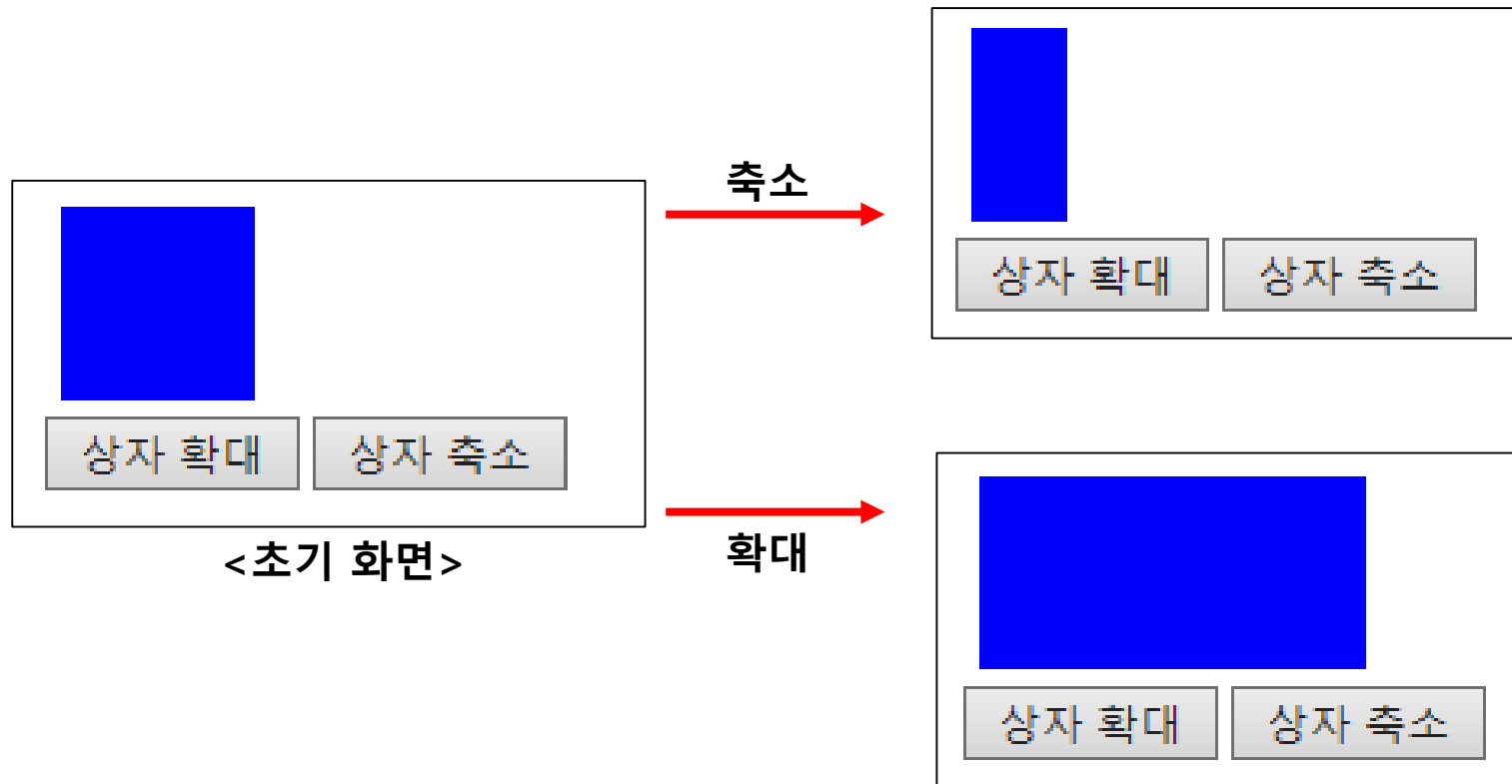


```
<html>
<head>
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
  <script>
    $(function() {
      $.ajax({
        type: "POST", // 데이터 전달 타입
        url: " check ", // 서버에 전송할 URL 주소
        data: { // 전달할 데이터 형식
          USER_ID: obj },

        dataType: "json", // 요청 받아올 데이터 형식
        success: function(data) { // Ajax 통신이 정상적으로 이루어지면 함수를 실행 },

        error: function(xhr, status, error) { // 통신에 문제가 발생했을 때 함수를 실행
          alert("errorWnxhr : " + xhr + ", status : " + status + ", error : " + error); }
      });
    });
  </script>
</head>
<body> </body>
</html>
```

Q1. jQuery 이벤트를 이용하여 “상자 확대” 버튼과 “상자 축소” 버튼을 누르면 아래의 그림과 같이 작동하도록 코드를 작성하시오.

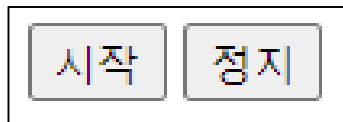


실습 과제 <실험·실습 제출자료 (2/4)>

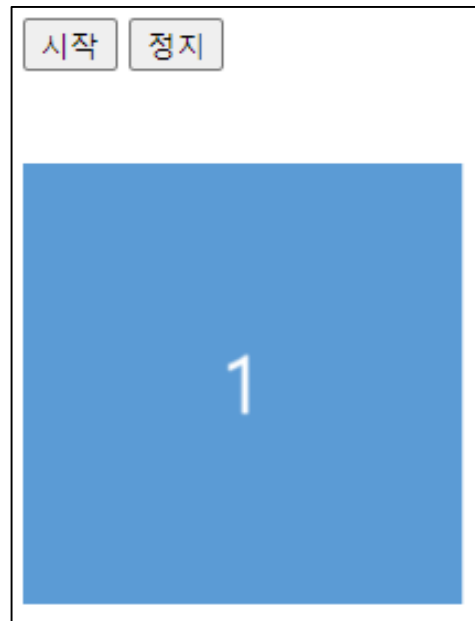
54/56

Q2. jQuery의 메소드 체인을 이용하여 아래의 그림과 같이 작동하도록 코드를 작성하시오.

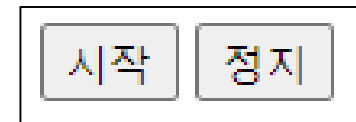
- 1) “시작”버튼을 누르면 두 가지 이상의 애니메이션 효과가 동작되며 그림이 나타남
- 2) “정지”버튼을 누르면 그림이 사라짐



<초기 화면>



<시작 버튼 작동 후 화면>



<정지 버튼 작동 후 화면>

Q3. attr()메소드를 이용하여 아래의 조건에 맞게 코드를 작성하시오.

- ① “URL 변경”버튼 클릭 전 → “페이지 이동”버튼 클릭 시, “www.dongguk.edu”로 이동
- ② “URL 변경”버튼 클릭 후 → “페이지 이동”버튼 클릭 시, “lib.dongguk.edu”로 이동
- ③ “사진 변경” 버튼 클릭 시, 사진 변경



<초기 화면>



<사진 변경 버튼 클릭 후 화면>

- 제출 방식 : E-Class를 통하여 제출
- 제출 내용 : HTML File, 포함된 이미지, Image File
- 제출 형식 : Zip File
 - (만들어지는 파일과 결과 화면 캡처 이미지를 압축)
- 제출 형식 : 학번_이름_주차
 - Ex) 학번_홍길동_5주차.zip
- 제출 기한 : 10월 5일(목) 오후 23시 59분
 - 기한 엄수 지각 제출 불허