

```

<properties>
    <java-version>1.6</java-version>
    <org.springframework-version>5.2.6.RELEASE</org.springframework-version>
    <org.aspectj-version>1.6.10</org.aspectj-version>
    <org.slf4j-version>1.6.6</org.slf4j-version>
</properties>
<dependencies>

```

```
<dependency>
    <groupId>log4j</groupId>
    <artifactId>log4j</artifactId>
    <version>1.2.15</version>
    <exclusions>
        <exclusion>
            <groupId>javax.mail</groupId>
            <artifactId>mail</artifactId>
        </exclusion>
        <exclusion>
            <groupId>javax.jms</groupId>
            <artifactId>jms</artifactId>
        </exclusion>
        <exclusion>
            <groupId>com.sun.jdmk</groupId>
            <artifactId>jmxtools</artifactId>
        </exclusion>
        <exclusion>
            <groupId>com.sun.jmx</groupId>
            <artifactId>jmxri</artifactId>
        </exclusion>
    </exclusions>
    <scope>runtime</scope>
</dependency>
```

```
<dependency>
    <groupId>log4j</groupId>
    <artifactId>log4j</artifactId>
    <version>1.2.17</version>
</dependency>

<!-- @Inject -->
<dependency>
    <groupId>javax.inject</groupId>
    <artifactId>javax.inject</artifactId>
    <version>1</version>
</dependency>

<!-- Servlet -->
<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId> servlet-api</artifactId>
    <version>2.5</version>
    <scope>provided</scope>
</dependency>
<dependency>
    <groupId>javax.servlet.jsp</groupId>
    <artifactId> jsp-api</artifactId>
    <version>2.1</version>
</dependency>
```

work - day01/pom.xml - Spring Tool Suite 3

```
<dependency>
    <groupId>javax.servlet.jsp</groupId>
    <artifactId>jsp-api</artifactId>
    <version>2.1</version>
    <scope>provided</scope>
</dependency>
<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>
</dependency>
<!-- Test -->
<dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.12</version>
    <scope>test</scope>
</dependency>
</dependencies>
<build>
    <plugins>
        <plugin>
            <artifactId>maven-eclipse-plugin</artifactId>
            <version>2.9</version>
            <configuration>
                <additionalProjectnatures>
```

4.7버전을 4.12로 변경

work - day01/pom.xml - Spring Tool Suite 3

```
<dependency>
    <downloadSources>true</downloadSources>
    <downloadJavadocs>true</downloadJavadocs>
</configuration>
</plugin>
<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-compiler-plugin</artifactId>
    <version>2.5.1</version>
    <configuration>
        <source>1.8</source>
        <target>1.8</target>
        <compilerArgument>xlint:all</compilerArgument>
        <showWarnings>true</showWarnings>
        <showDeprecation>true</showDeprecation>
    </configuration>
</plugin>
<plugin>
    <groupId>org.codehaus.mojo</groupId>
    <artifactId>exec-maven-plugin</artifactId>
    <version>1.2.1</version>
    <configuration>
        <mainClass>org.test.int1.Main</mainClass>
    </configuration>
</plugin>
</plugins>
</build>
</project>
<
```

1.6을 1.8로 변경

work - day01/pom.xml - Spring Tool Suite 3

```
<dependency>
    <artifactId>spring-context</artifactId>
    <version>${org.springframework-version}</version>
    <exclusions>
        <!-- Exclude Commons Logging in favor of SLF4j -->
        <exclusion>
            <groupId>commons-logging</groupId>
            <artifactId>commons-logging</artifactId>
        </exclusion>
    </exclusions>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-webmvc</artifactId>
    <version>${org.springframework-version}</version>
</dependency>
<!-- AspectJ -->
<dependency>
    <groupId>org.aspectj</groupId>
    <artifactId>aspectjrt</artifactId>
    <version>${org.aspectj-version}</version>
</dependency>
<!-- Logging -->
<dependency>
    <groupId>org.slf4j</groupId>
    <artifactId>slf4j-api</artifactId>

```

이 부분을 복사해서  
바로 아래에 붙여넣기

Package Explorer: day01  
src/main/java  
src/main/resources  
src/test/java  
src/test/resources  
JRE System Library [JavaSE-1.6]  
Maven Dependencies  
src  
target  
pom.xml

Servers: Boot Dashboard  
Pivotal tc Server Developer Edition v4.0 [Stopped]

project/dependencies/dependency

검색하려면 여기에 입력하십시오.

Writable Smart Insert 34 : 22 [165] 2020-05-06 오후 6:24

work - day01/pom.xml - Spring Tool Suite 3

```
<dependency>
    <artifactId>spring-context</artifactId>
    <version>${org.springframework-version}</version>
    <exclusions>
        <!-- Exclude Commons Logging in favor of SLF4j -->
        <exclusion>
            <groupId>commons-logging</groupId>
            <artifactId>commons-logging</artifactId>
        </exclusion>
    </exclusions>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-webmvc</artifactId>
    <version>${org.springframework-version}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-test</artifactId>
    <version>${org.springframework-version}</version>
</dependency>
<!-- AspectJ -->
<dependency>
    <groupId>org.aspectj</groupId>
    <artifactId>aspectjrt</artifactId>
    <version>${org.aspectj-version}</version>
</dependency>
<!-- Logging -->
<dependency>
    <groupId>org.slf4j</groupId>
    <artifactId>slf4j-api</artifactId>

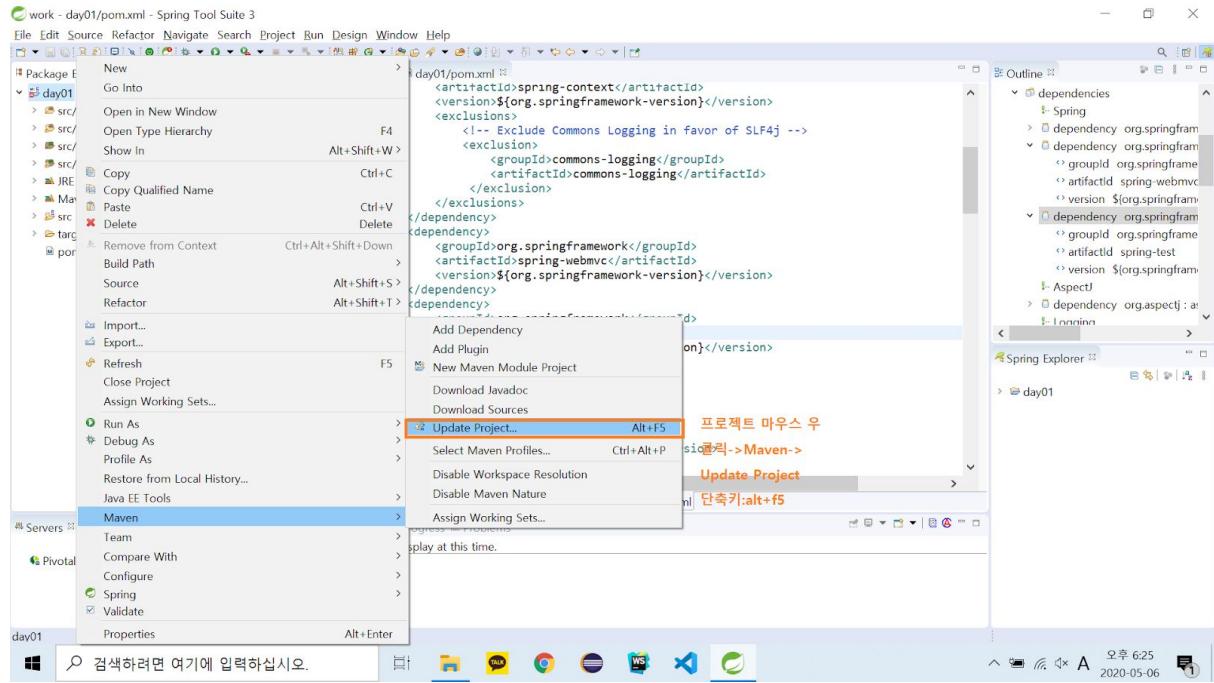
```

복사한 부분

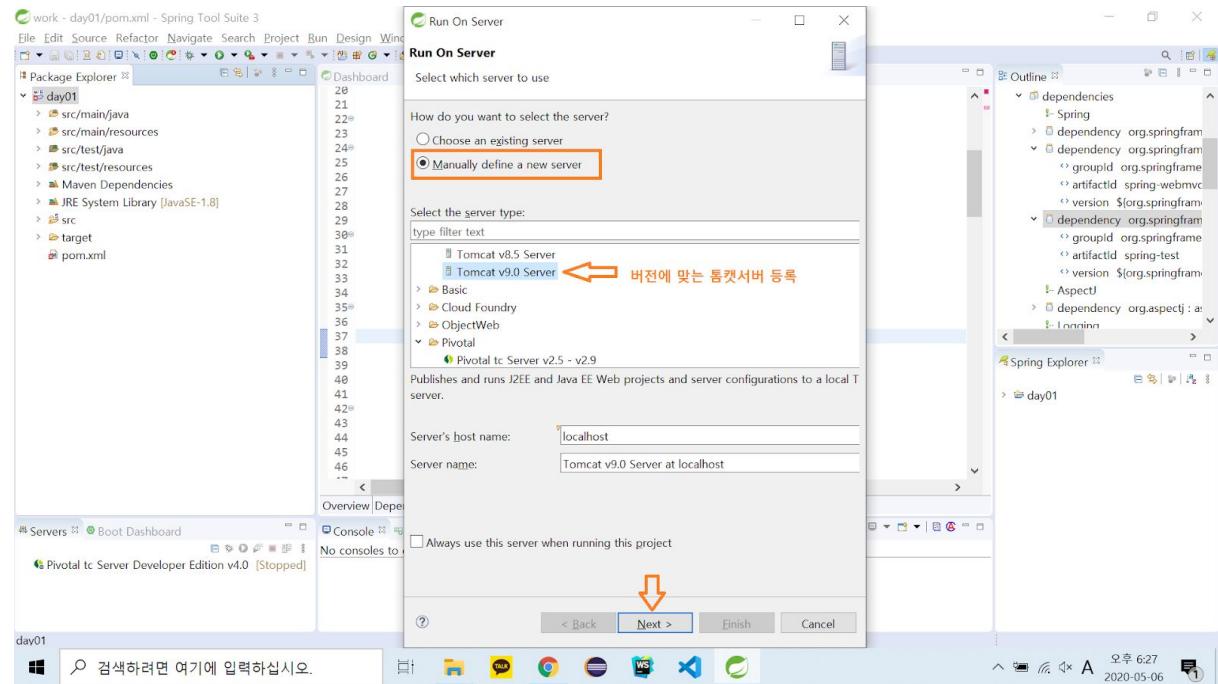
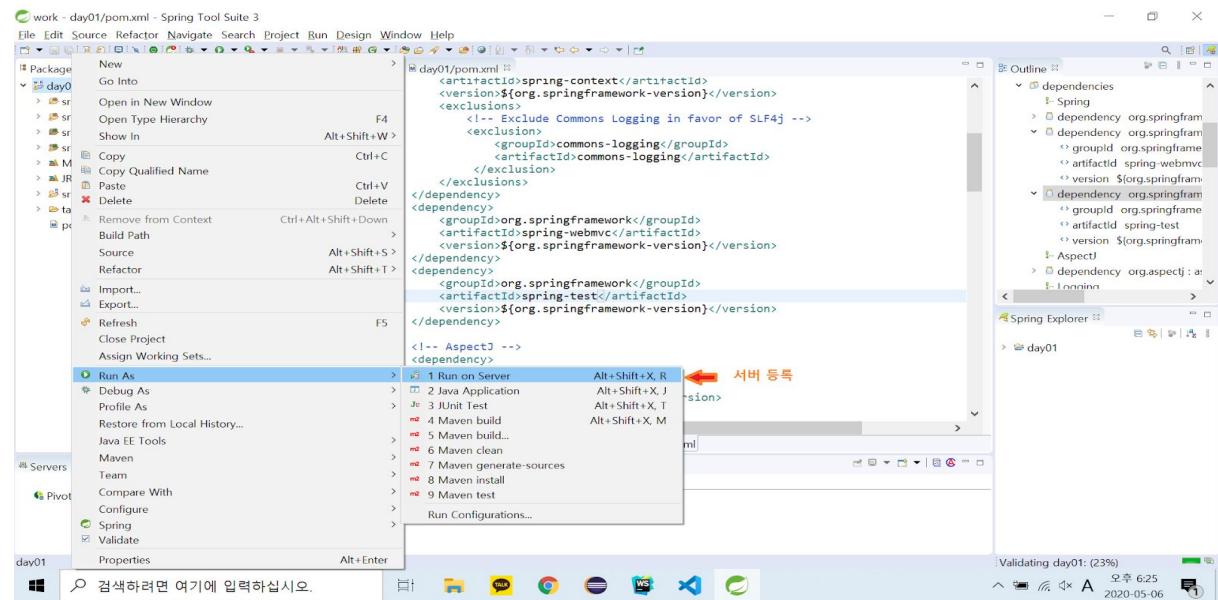
project/dependencies/dependency/#text

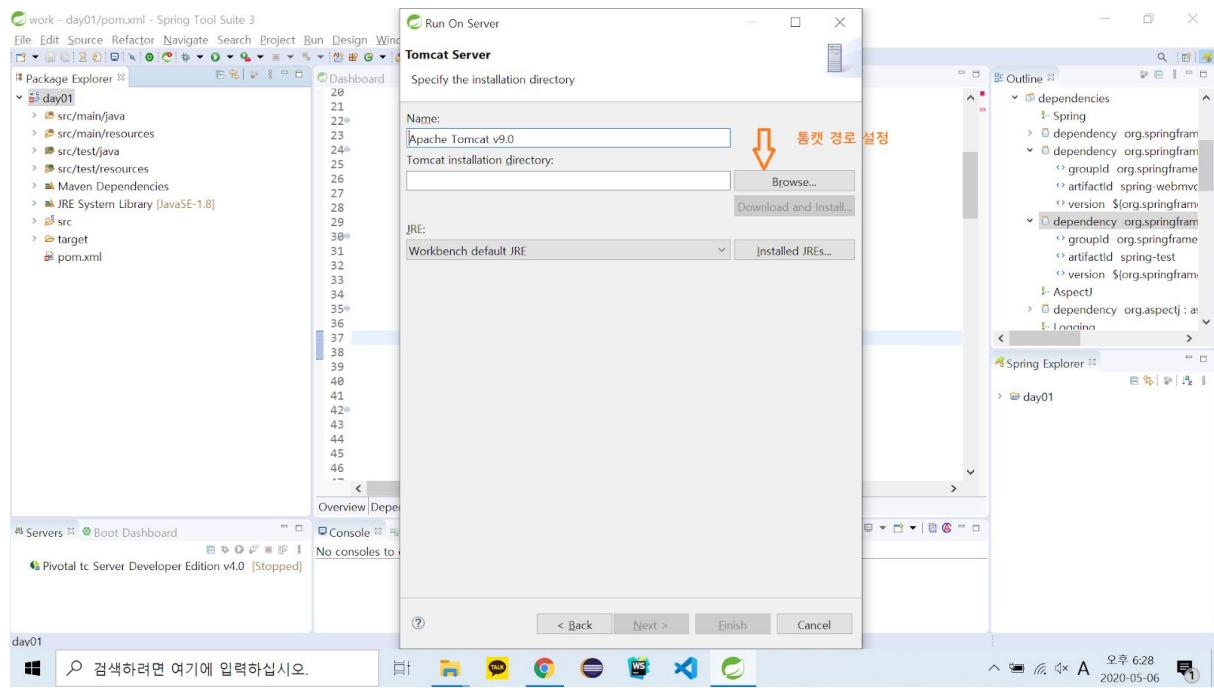
검색하려면 여기에 입력하십시오.

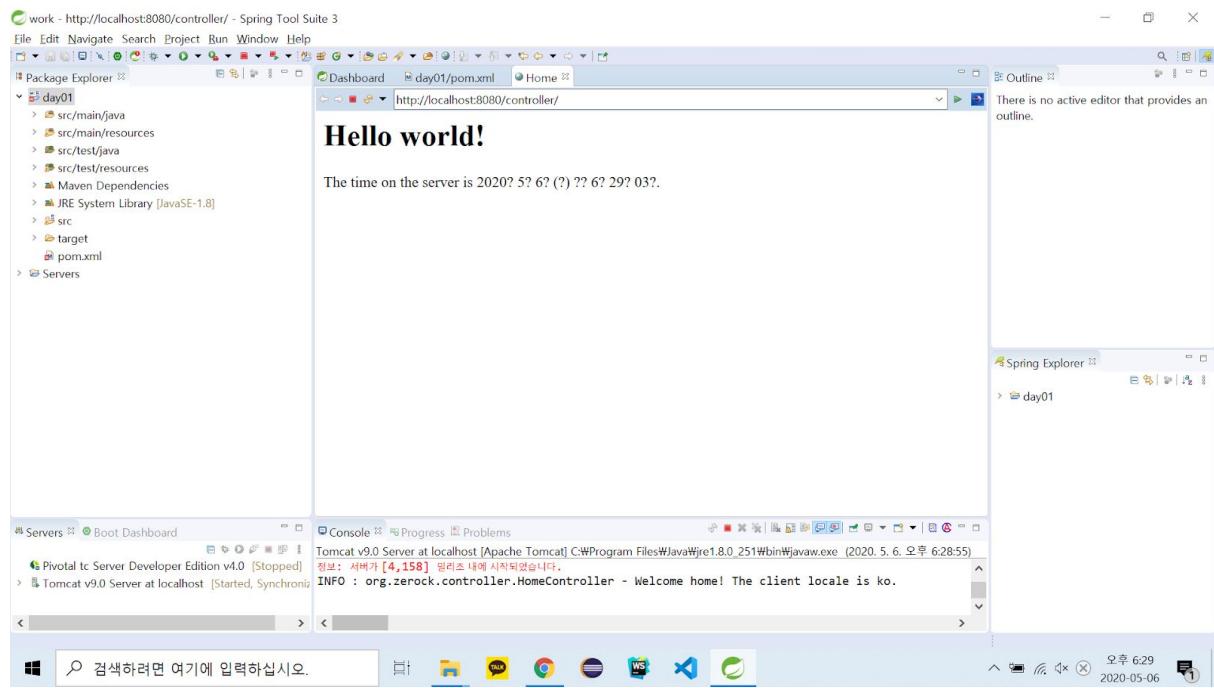
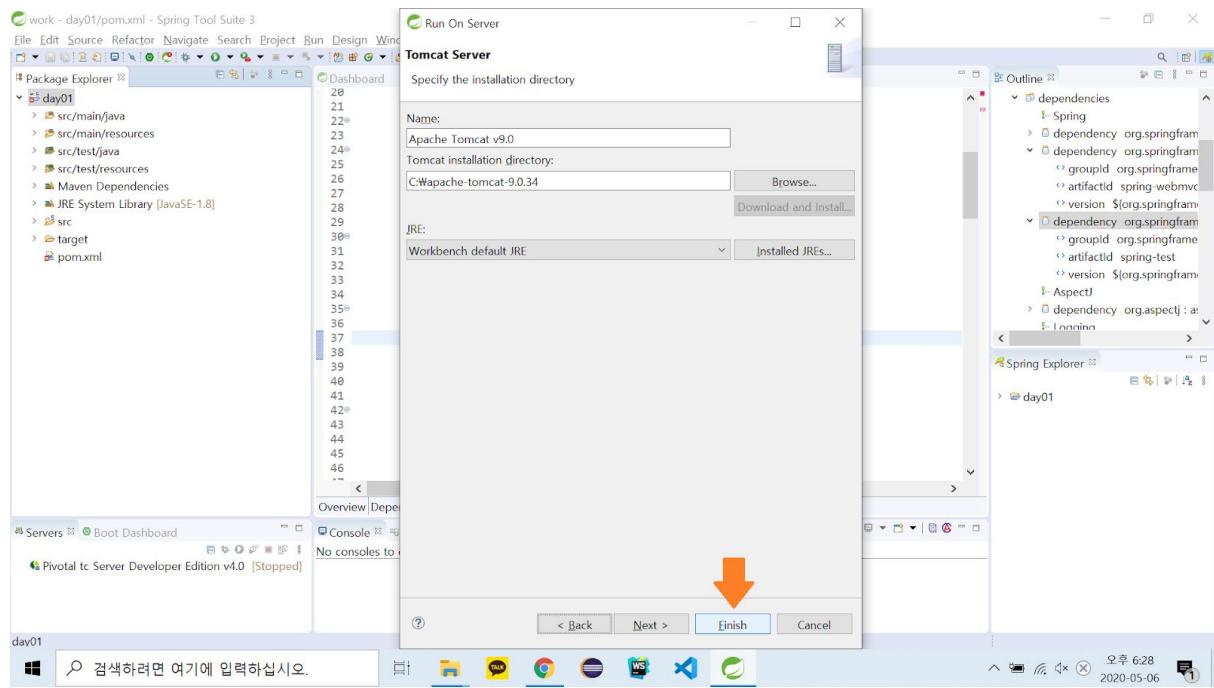
Writable Smart Insert 37 : 49 ; 1349 2020-05-06 오후 6:24



## <http://tomcat.apache.org/>

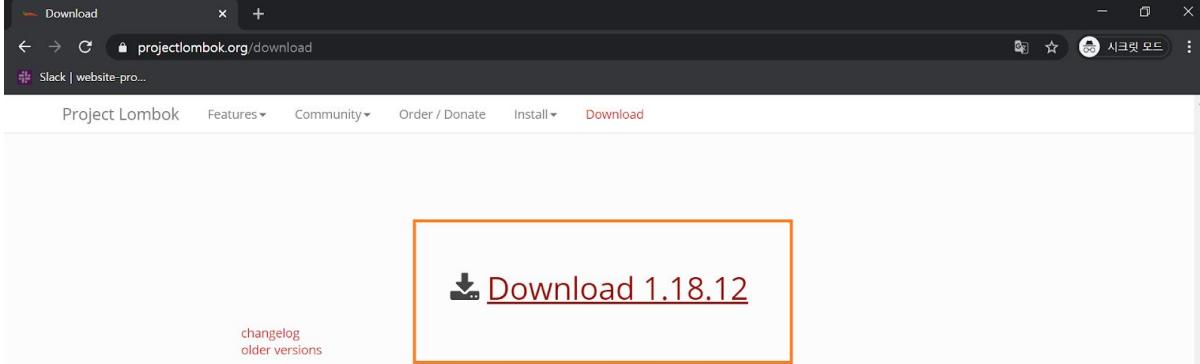






## Lombok 추가

<https://projectlombok.org/>



Feeling adventurous? Download the latest [snapshot](#) release.

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Project Lombok v1.18.12 - Installer

**Javac** (and tools that invoke javac such as `ant` and `maven`)  
Lombok works 'out of the box' with javac.  
Just make sure the `lombok.jar` is in your classpath when you compile.  
Example: `javac -cp lombok.jar MyCode.java`

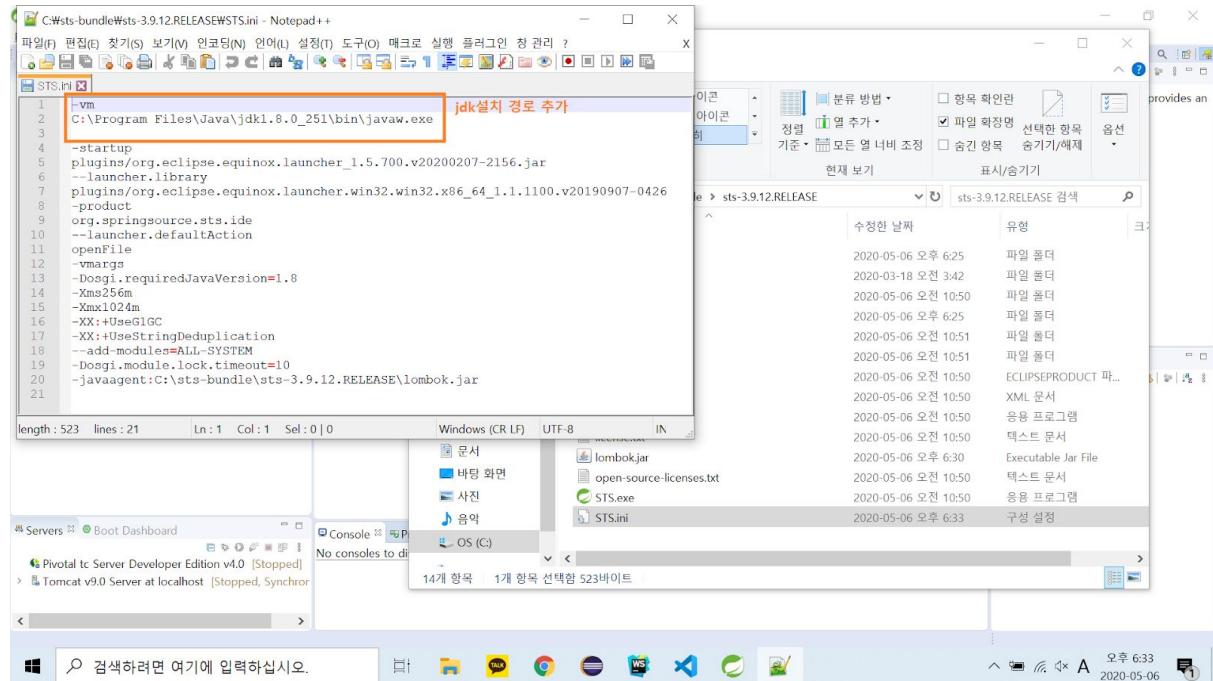
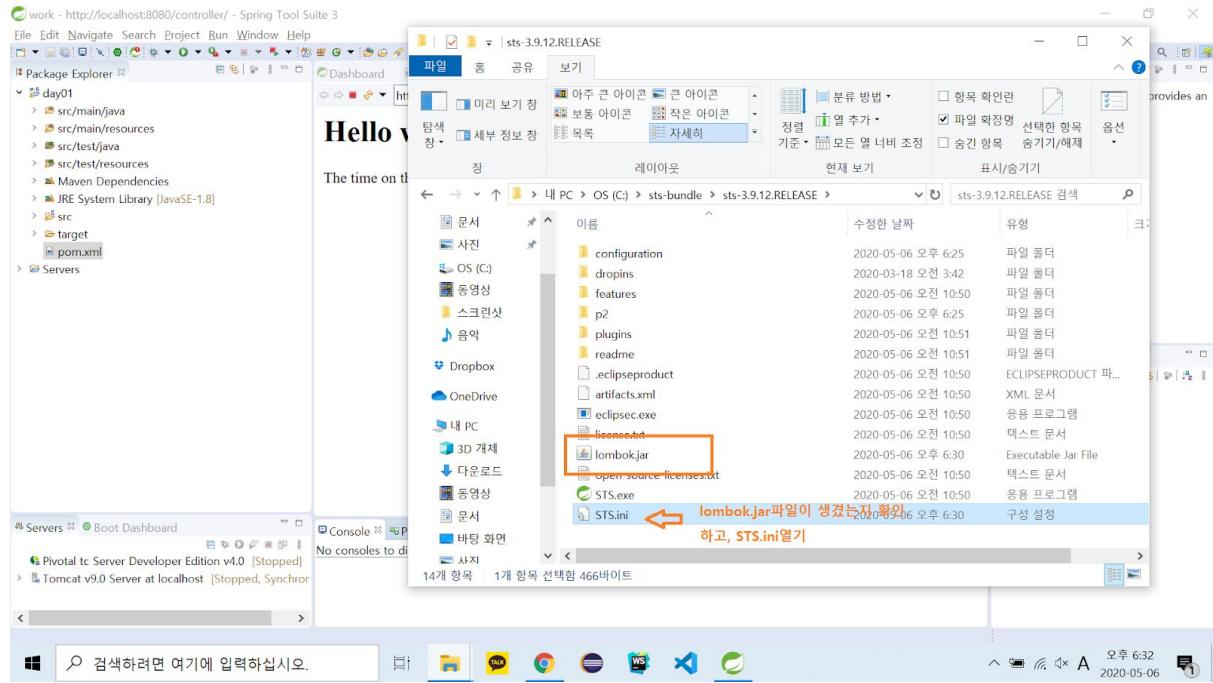
**IDEs**  
Lombok can update your Eclipse or eclipse-based IDE to fully support all Lombok features.  
Select IDE installations below and hit 'Install/Update'.  
 C:\Users\leejii\Eclipse\jee-2020-03\eclipse\eclipse.exe  
 C:\sts-bundle\sts-3.9.12.RELEASE\STS.exe

Specify location... [Install / Update](#)

[Show me what this installer will do to my IDE installation.](#)

<https://projectlombok.org> v1.18.12 [View full changelog](#) [Quit Installer](#)





<https://mvnrepository.com/artifact/org.projectlombok/lombok/1.18.12>

## lombok maven추가

The screenshot shows the Eclipse IDE interface with the pom.xml file open in the central editor. A red box highlights the following code snippet:

```
<dependency>
    <groupId>org.projectlombok</groupId>
    <artifactId>lombok</artifactId>
    <version>1.18.12</version>
    <scope>provided</scope>
</dependency>
```

The code is annotated with "pom.xml" and "lombok maven추가". The right-hand side of the interface shows the Project Explorer, Outline, and Spring Explorer.

The screenshot shows the Eclipse IDE interface with the HomeController.java file open in the central editor. A red box highlights the following imports:

```
import java.util.Date;
import java.util.Locale;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
```

The code is annotated with "박스 표시된 부분 모" (Selected part) and "두 삭제" (Delete two). The right-hand side of the interface shows the Project Explorer, Outline, and Spring Explorer.

```
work - day01/src/main/java/org/zerock/controller/HomeController.java - Spring Tool Suite 3
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer Dashboard day01/pom.xml HomeController.java
13
14 /**
15 * Handles requests for the application home page.
16 */
17 @Controller
18 @Log4j
19 public class HomeController {
20     박스에 있는 코드 추가하고 실행
21
22     /**
23      * Simply selects the home view to render by returning its name.
24     */
25     @RequestMapping(value = "/", method = RequestMethod.GET)
26     public String home(Locale locale, Model model) {
27
28         log.info("HomeController....");
29
30         Date date = new Date();
31         DateFormat dateFormat = DateFormat.getDateInstance(DateFormat.LONG, DateFormat);
32
33         String formattedDate = dateFormat.format(date);
34
35         model.addAttribute("serverTime", formattedDate );
36
37         return "home";
38     }
39
40 }
```

Servers Boot Dashboard  
Pivotal tc Server Developer Edition v4.0 [Stopped]  
Tomcat v9.0 Server at localhost [Stopped]

Console Progress Problems  
No consoles to display at this time.



