

0915 JDBC 설정/Spring

C:\Program Files\Apache Software Foundation\Tomcat 9.0\lib
에 JAR 파일 넣고 경로 설정 해주기

가상환경 리눅스에서
/var/lib/tomcat9/lib/
위치에 JAR 파일 추가

Spring Project 01
perspective - java EE
new - maven project - simple project 콤보박스 체크
JRE System Library 우클릭 - Properties - Execution 버전 변경

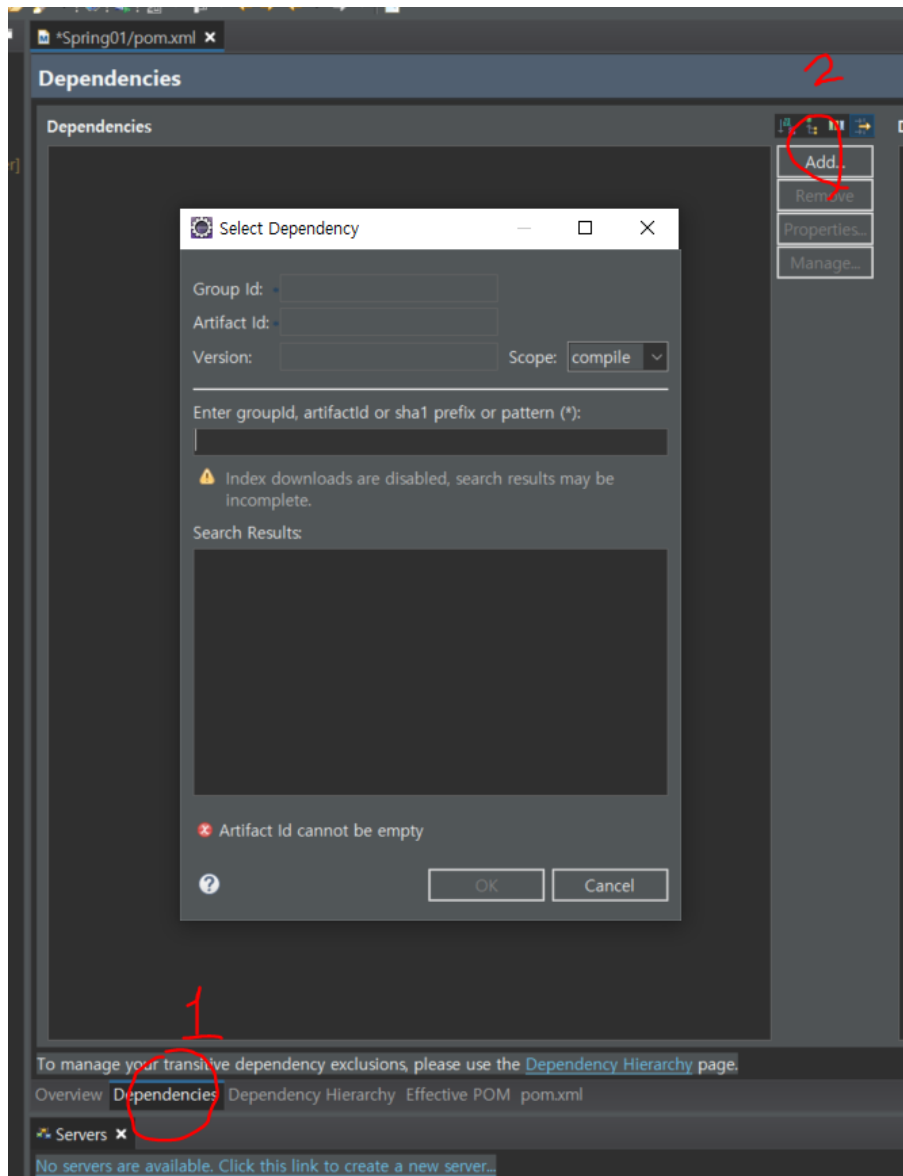
라이브러리를 다운 받는 사이트 목록

../		
HTTPClient/	-	-
abbot/	-	-
academy/	-	-
acegisecurity/	-	-
activation/	-	-
activecluster/	-	-
activeio/	-	-
activemq/	-	-
activemq-jaxb/	-	-
activesoap/	-	-
activespace/	-	-
adarwin/	-	-
ae/	-	-
aelfred/	-	-
aero/	-	-
ag/	-	-
ai/	-	-
aislib/	-	-
al/	-	-

- <https://repo.maven.apache.org/maven2/>

⇒ 근.본.

주소 뒤에 찾고자 하는 라이브러리 붙여서 검색하면 바로 나옴

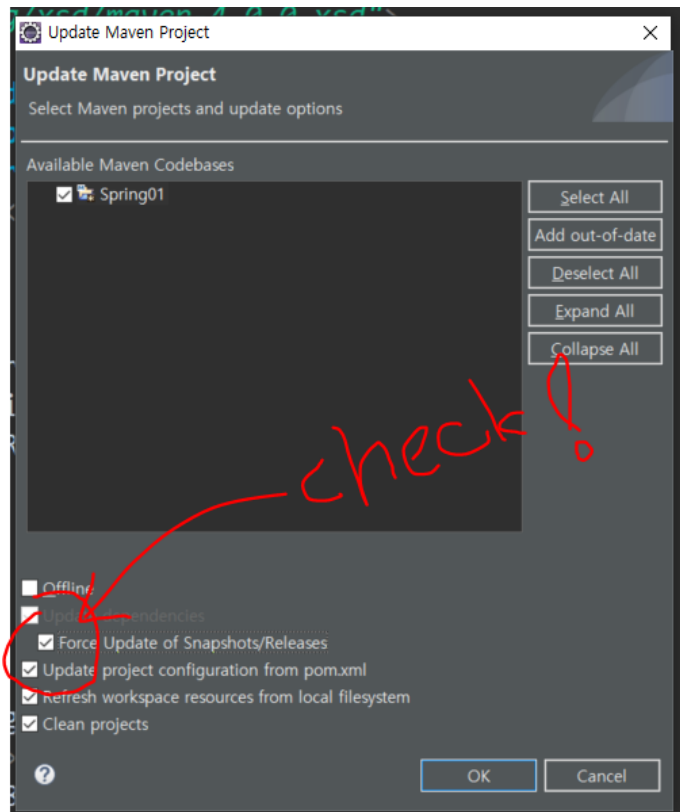


```
<groupId>org.springframework</groupId>  
<artifactId>spring-context</artifactId>  
<version>5.2.9.RELEASE</version>
```

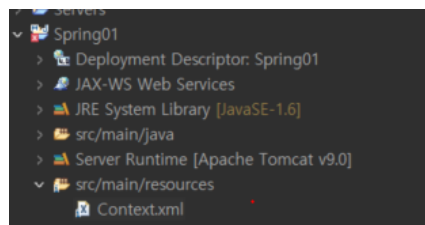
Alt + F5 ⇒ add 한 파일 설치 됨

```
<plugins>  
  <plugin>  
    <groupId>org.apache.maven.plugins</groupId>  
    <artifactId>maven-compiler-plugin</artifactId>  
    <version>3.8.1</version>  
  </plugin>  
</plugins>
```

<https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/>



뭔가 추가했다 그러면 저장하고 alt+f5 하고 force update



src/main/resource 안에 Context.xml 파일 생성

하단의 내용 추가

```
<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:context="http://www.springframework.org/schema/context"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans.xsd
                           http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context.xsd">

    <!-- 여기에서 적당히 코드 추가 된다-->
</beans>
```

```
<bean id="animal" class="Pack.Animal"></bean>
```

Animal animal = new Animal(); 과 같은 동작을 하는 코드이나 객체 생성 시점이 다름
bean ⇒ 객체를 먼저 만들고 그 객체를 받아와서 사용한다

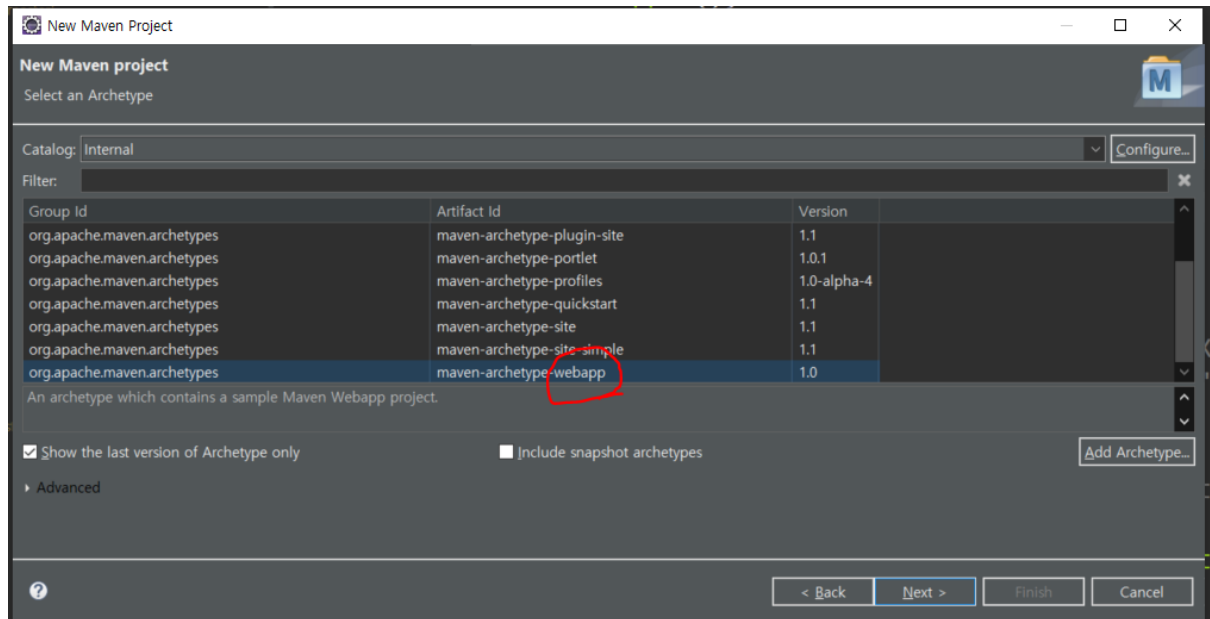
Context.xml 파일은 주입의 용도로 사용된다.

MVC maven project 생성

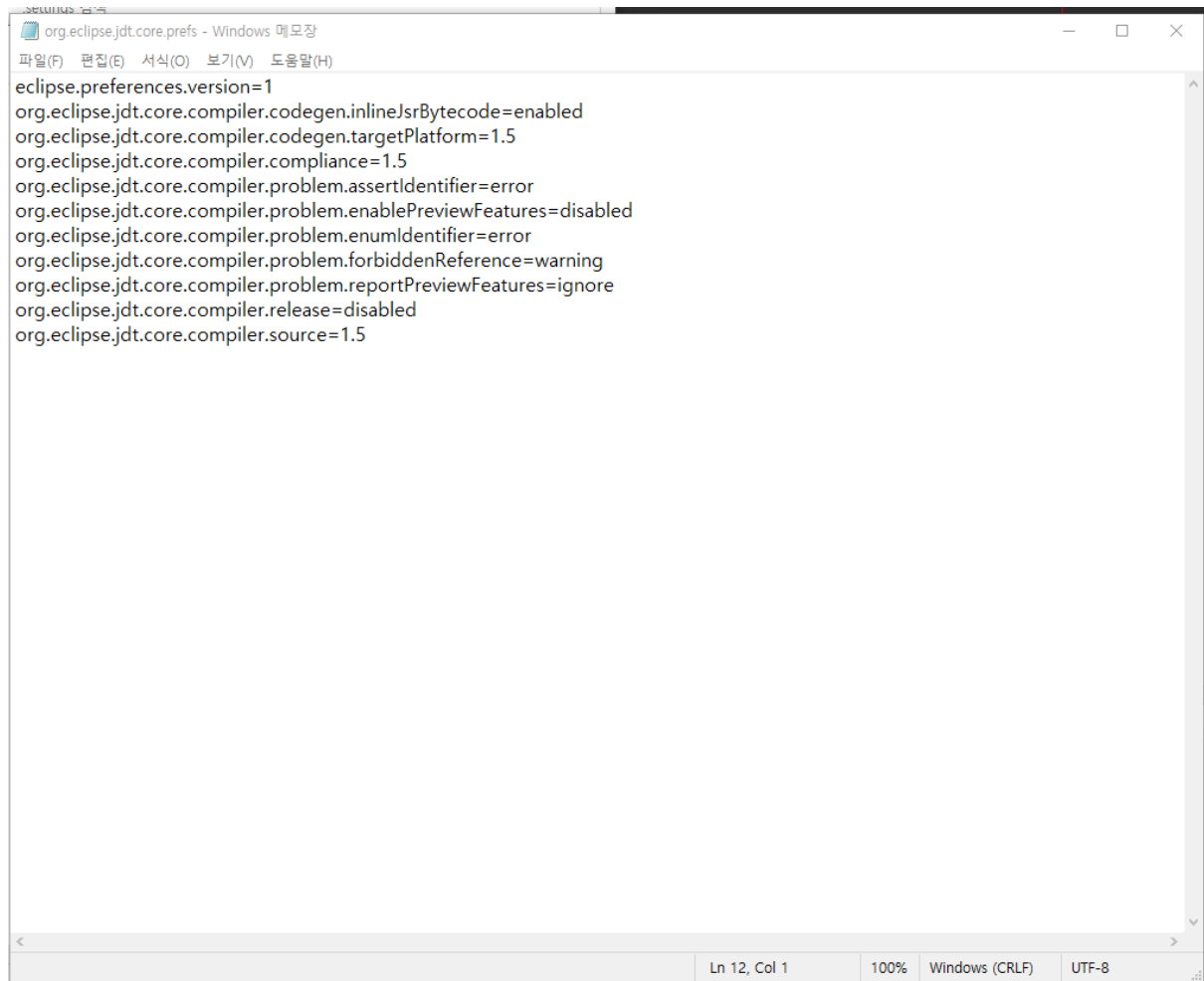
1. MVC maven project 생성

perspective - java EE

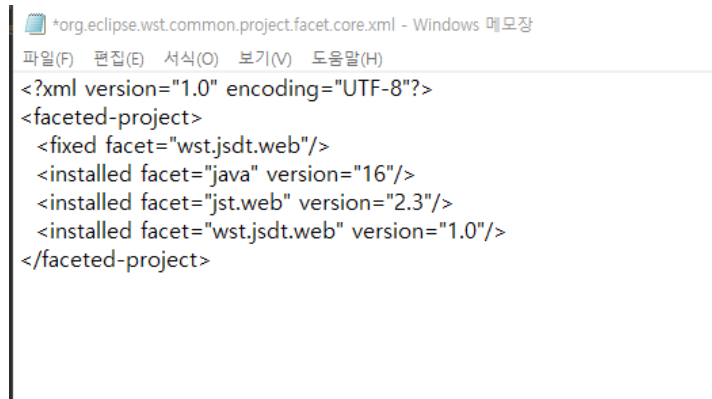
new - maven project



2. 프로젝트 설정을 위한 파일 수정



```
org.eclipse.jdt.core.prefs - Windows 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)
eclipse.preferences.version=1
org.eclipse.jdt.core.compiler.codegen.inlineJsrBytecode=enabled
org.eclipse.jdt.core.compiler.codegen.targetPlatform=1.5
org.eclipse.jdt.core.compiler.compliance=1.5
org.eclipse.jdt.core.compiler.problem.assertIdentifier=error
org.eclipse.jdt.core.compiler.problem.enablePreviewFeatures=disabled
org.eclipse.jdt.core.compiler.problem.enumIdentifier=error
org.eclipse.jdt.core.compiler.problem.forbiddenReference=warning
org.eclipse.jdt.core.compiler.problem.reportPreviewFeatures=ignore
org.eclipse.jdt.core.compiler.release=disabled
org.eclipse.jdt.core.compiler.source=1.5
```

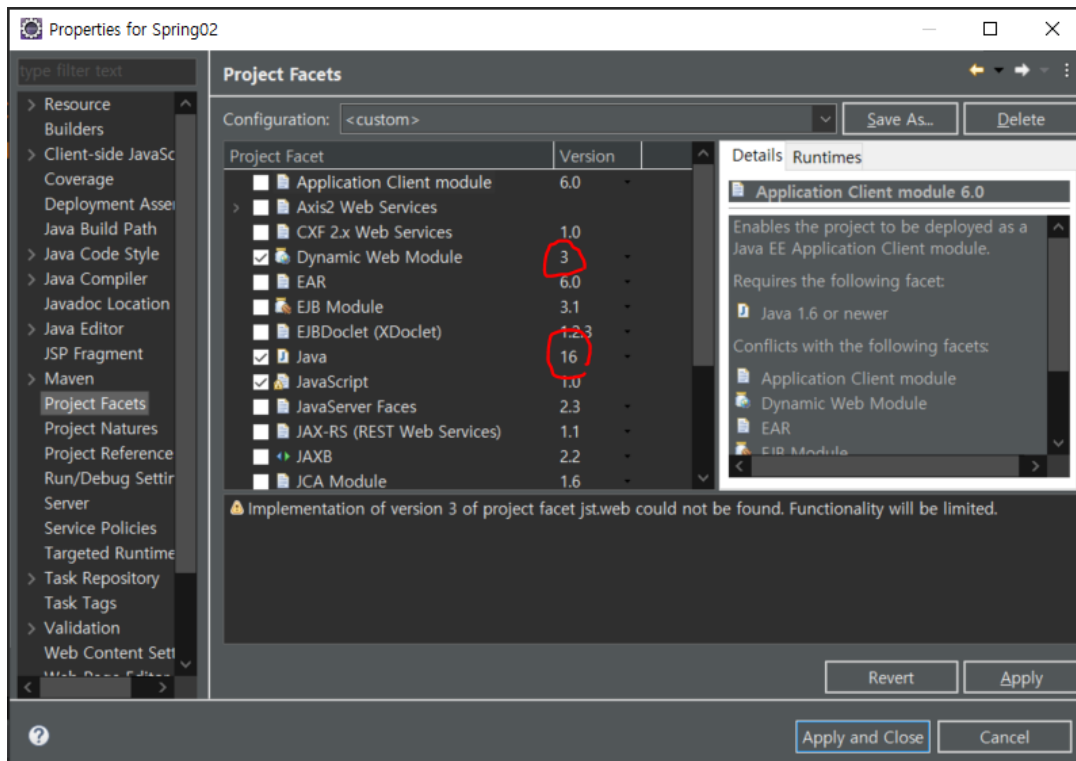


```
*org.eclipse.wst.common.project.facet.core.xml - Windows 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)
<?xml version="1.0" encoding="UTF-8"?>
<faceted-project>
  <fixed facet="wst.jsdt.web"/>
  <installed facet="java" version="16"/>
  <installed facet="jst.web" version="2.3"/>
  <installed facet="wst.jsdt.web" version="1.0"/>
</faceted-project>
```

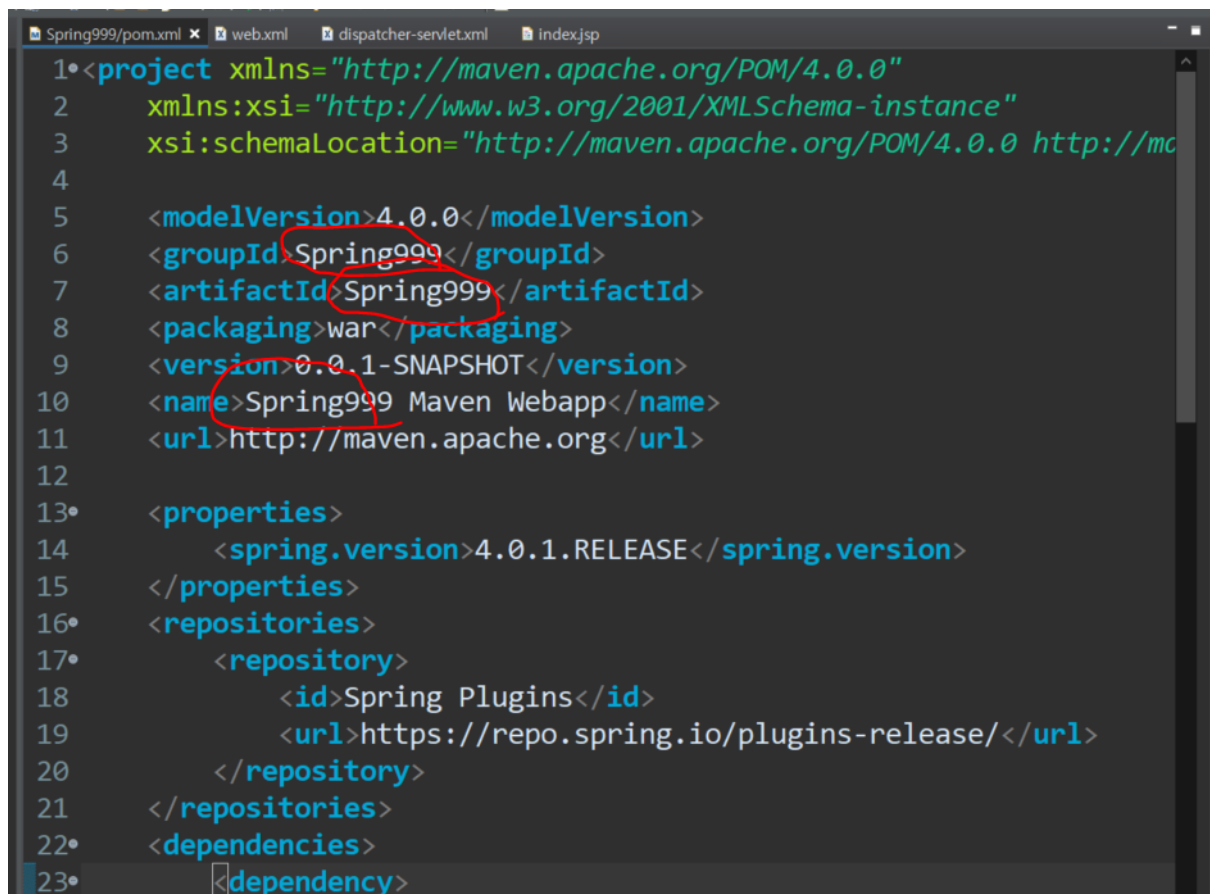
C:\Users\user\eclipse-workspace\프로젝트이름\.settings

1. org.eclipse.jdt.core.prefs 1.5 ⇒ 16 (자바 디폴트 버전)
2. org.eclipse.wst.common.project.facet.core.xml 2.3 ⇒ 3 (여기도 자바 있음!!!)

이클립스 프로젝트 refresh 하고 우클릭 properties project facet dynamic module 2.3 ⇒ 3 java 1.5 ⇒ 16 확인, run time tomcat9 apply 하기



3. pom.xml 파일 수정하기



프로젝트 이름 변경 주의

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

  <modelVersion>4.0.0</modelVersion>
  <groupId>프로젝트 이름</groupId>
  <artifactId>프로젝트 이름</artifactId>
  <packaging>war</packaging>
  <version>0.0.1-SNAPSHOT</version>
  <name>프로젝트 이름 Maven Webapp</name>
  <url>http://maven.apache.org</url>

  <properties>
    <spring.version>4.0.1.RELEASE</spring.version>
  </properties>
  <repositories>
    <repository>
      <id>Spring Plugins</id>
      <url>https://repo.spring.io/plugins-release</url>
    </repository>
  </repositories>
  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.7</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>javax.servlet.jsp</groupId>
      <artifactId>jsp-api</artifactId>
      <version>2.2</version>
    </dependency>
    <dependency>
      <groupId>javax.servlet</groupId>
      <artifactId>javax.servlet-api</artifactId>
      <version>3.0.1</version>
    </dependency>
    <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-webmvc</artifactId>
      <version>4.1.0.RELEASE</version>
    </dependency>
    <dependency>
      <groupId>javax.servlet</groupId>
      <artifactId>jstl</artifactId>
      <version>1.2</version>
    </dependency>
  </dependencies>
  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.0</version>
        <configuration>
          <source>16</source>
          <target>16</target>
        </configuration>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-war-plugin</artifactId>
        <version>3.3.2</version>
      </plugin>
    </plugins>
  </build>
</project>
```

```

49 </dependencies>
50 <build>
51 <plugins>
52 <plugin>
53 <groupId>org.apache.maven.plugins</groupId>
54 <artifactId>maven-compiler-plugin</artifactId>
55 <version>3.0</version>
56 <configuration>
57 <source>16</source>
58 <target>16</target>
59 </configuration>
60 </plugin>
61 <plugin>
62 <groupId>org.apache.maven.plugins</groupId>
63 <artifactId>maven-war-plugin</artifactId>
64 <version>3.3.2</version>
65 </plugin>
66 </plugins>
67 </build>

```

Java 버전

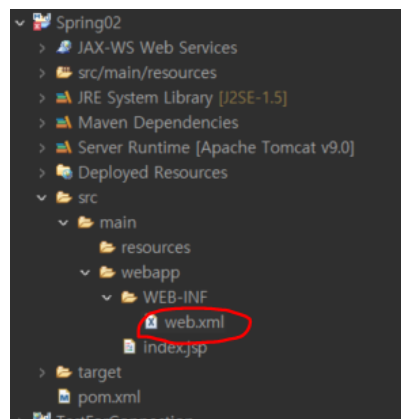
태그 오류가 난다면?

이클립스를 종료하고

C:\Users\user\m2\repository

해당 디렉토리 안에 존재하는 파일 모두 삭제 후 다시 프로젝트 alt + f5 force 옵션 주기

4. 한글, Servlet 설정



```

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
id="WebApp_ID" version="3.0">
<display-name>Archetype Created Web Application</display-name>
<servlet>
<servlet-name>dispatcher</servlet-name>
<servlet-class>
org.springframework.web.servlet.DispatcherServlet
</servlet-class>
<load-on-startup>1</load-on-startup>
</servlet>
<!--dispatcher 설정 -->

```



```

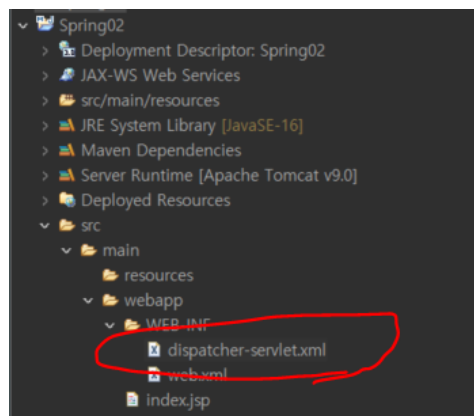
<servlet-mapping>
  <servlet-name>dispatcher</servlet-name>
  <url-pattern>/</url-pattern>
</servlet-mapping>

<!-- 한글 설정 -->
<filter>
  <filter-name>encodingFilter</filter-name>
  <filter-class>
    org.springframework.web.filter.CharacterEncodingFilter
  </filter-class>
  <init-param>
    <param-name>encoding</param-name>
    <param-value>UTF-8</param-value>
  </init-param>
</filter>
<filter-mapping>
  <filter-name>encodingFilter</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping>
</web-app>

```

혹시 이상한데서 빨간줄 뜨면 이클립스 재시동

5. dispatcher-servlet.xml 파일 생성



이름 오타 확인!!!

```

<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
  xmlns:context="http://www.springframework.org/schema/context"
  xmlns:mvc="http://www.springframework.org/schema/mvc"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/beans/spring-beans.xsd
    http://www.springframework.org/schema/context
    http://www.springframework.org/schema/context/spring-context.xsd
    http://www.springframework.org/schema/mvc
    http://www.springframework.org/schema/mvc/spring-mvc.xsd">

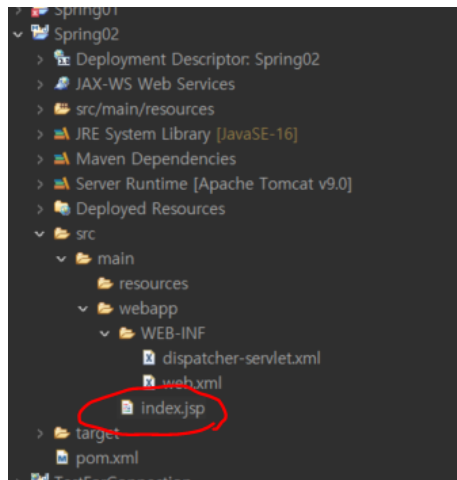
  <!-- 컨트롤러 위치 설정 -->
  <context:component-scan base-package="Pack01" />

  <mvc:annotation-driven />
  <mvc:default-servlet-handler />

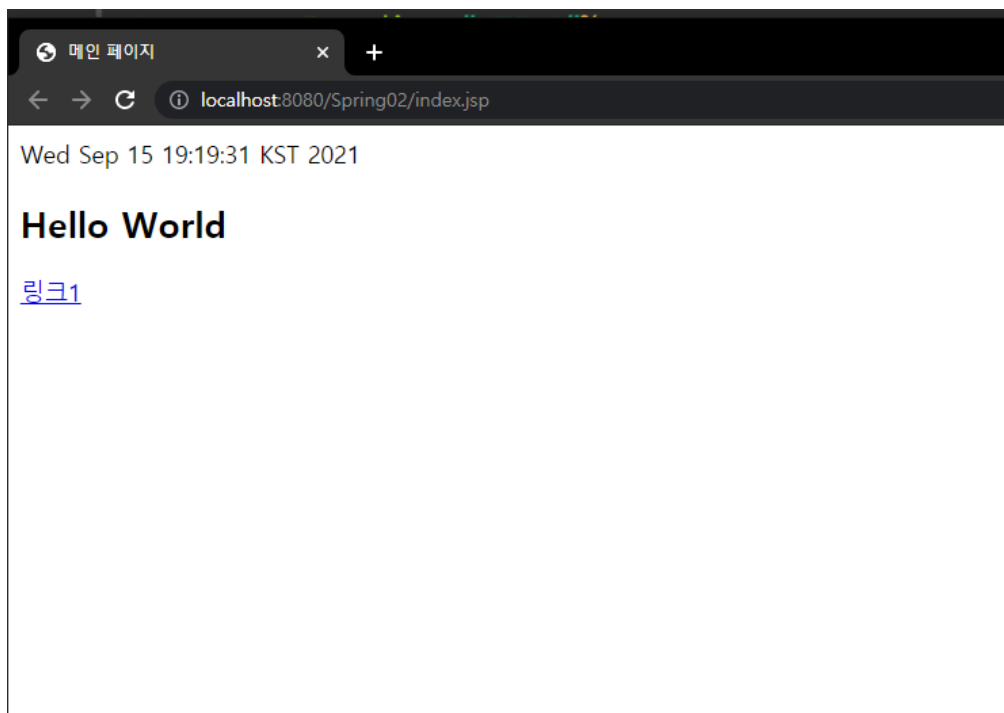
  <!-- 뷰 위치 설정 -->
  <mvc:view-resolvers>
    <mvc:jsp prefix="/WEB-INF/Views/" />
  </mvc:view-resolvers>
</beans>

```

6. index.jsp 수정



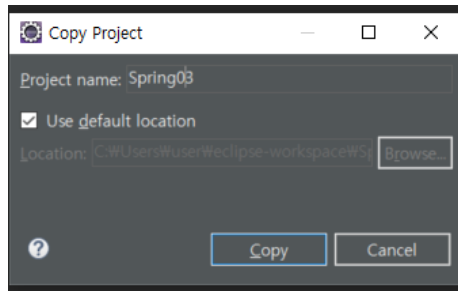
```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ page import="java.util.*, java.text.*"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<head>
<title>메인 페이지</title>
</head>
<body>
    <%=new Date()%>
    <h2>Hello World</h2>
    <a href="t1">링크1</a>
    <br />
</body>
```



성공하면 뜨는 화면!

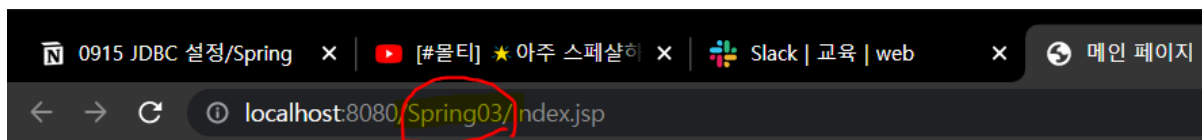
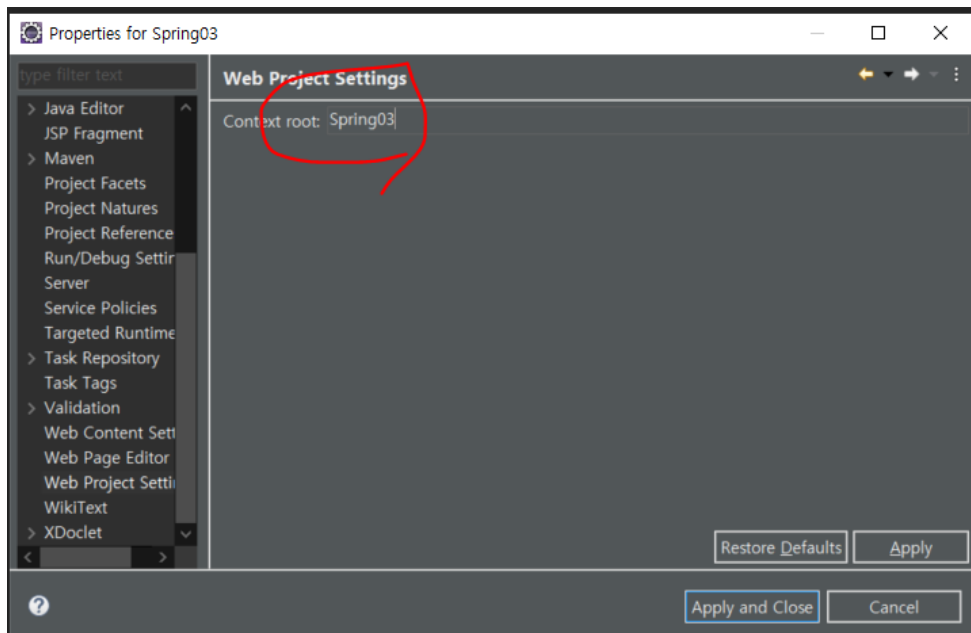
스프링 프로젝트 복제

기존 프로젝트 ctrl c v



```
*Spring03/pom.xml x
1<project xmlns="http://maven.apache.org/POM/4.0.0"
2  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://m
4
5  <modelVersion>4.0.0</modelVersion>
6  <groupId>Spring03</groupId>
7  <artifactId>Spring03</artifactId>
8  <packaging>war</packaging>
9  <version>0.0.1-SNAPSHOT</version>
10 <name>Spring02 Maven Webapp</name>
11 <url>http://maven.apache.org</url>
12
13<properties>
14  <spring.version>4.0.1.RELEASE</spring.version>
15</properties>
16<repositories>
17  <repository>
18    <id>Spring Plugins</id>
19    <url>https://repo.spring.io/plugins-release/</url>
```

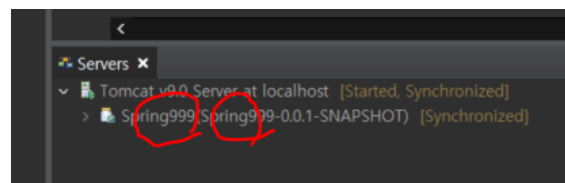
복제한 프로젝트 pom.xml



Wed Sep 15 19:25:14 KST 2021

Hello World

[링크1](#)



실행 했을 때 복제한 프로젝트 이름으로 바뀌어져 있으면 제대로 복제 성공!