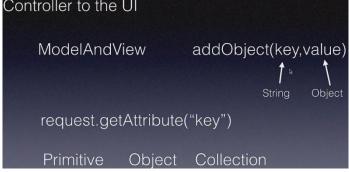
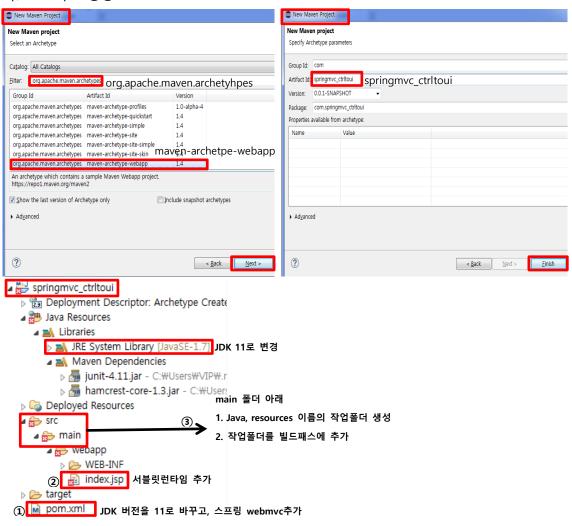
1. 소개





- 2. 메이븐 프로젝트 만들기
- 가. 프로젝트 생성



```
나. pom.xml 수정(1)
 м springmvc_ctrltoui/pom.xml 🖂
               <?xml version="1.0" encoding="UTF-8"?>
       3030
4 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http.//maven.apache.org/POM/4.0.0 http://maven.apache.org/POM/4.0.0 http://maven.apache.org/POM/4.0 http://maven.apache.org/POM/4.0 http://maven.apache.org
                   <modelVersion>4.0.0</modelVersion>
                   <groupId>com</groupId>
                   <artifactId>springmvc_ctrltoui</artifactId>
                   <version>0.0.1-SNAPSHOT</version>
     10
                   <packaging>war</packaging>
                   <name>springmvc_ctrltoui Maven Webapp</name>
                   <url>http://www.example.com</url>
                                                                                                                                                                                                                                                                                            Rename...
                                                                                                                                                                                                                                                      springmvc
     15⊝
                                                                                                                                                                                                                                                                                            Remove from
                                                                                                                                                                                                                                                              🔁 Deployn
                                  <springframework.version>4.3.6.RELEASE</springframework.ver</pre>
     16
     17
                        </properties>
                                                                                                                                                                                                                                                           Import
     18
                                                                                                                                                                                                                                                               △ 📸 Librar
                        <dependencies>
                                                                                                                                                                                                                                                                                            Export
                                                                                                                                                                                                                                                                   D 🔜 JRI
     20€
                                                                                                                                                                                                                                                                    △ 🎮 M:
                                            <groupId>org.springframework</groupId>
<artifactId>spring-webmvc</artifactId>
                                                                                                                                                                                                                                                                                            Refresh
                                                                                                                                                                                                                                                                         ₽æ
                                                                                                                                                                                                                                                                                            Close Project
     23
                                             <version>${springframework.version}</version>
     24
                                 </dependence
                                                                                                                                                                                                Add Dependency
                                                                                                                                                                                                                                                                                            Close Unrelate
     25
                        </dependencies>
                                                                                                                                                                                                Add Plugin
    26⊖
27⊝
                        <build>
                                                                                                                                                                                                                                                                                            Search..
                                 <pluginManagement>
                                                                                                                                                                                      New Maven Module Project
                                            <plugins>
                                                                                                                                                                                                                                                                                            Add Perl Natu
     29⊜
                                                     <plugin>
                                                                                                                                                                                                Download Javadoc
                                                                                                                                                                                                                                                                                    Q.
                                                                                                                                                                                                                                                                                            Coverage As
     30
                                                               <groupId>org.apache.maven.plugins</groupId>
     31
                                                                <artifactId>maven-compiler-plugin</artifactId>
                                                                                                                                                                                               Download Sources
                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                           Run As
                                                                 <version>3.8.0</version</pre>
     32

⊕ Update Project...

                                                                                                                                                                                                                                                                 Alt+F5
     33⊝
                                                                                                                                                                                                                                                                                    🎋 Debug As
                                                                 <configuration>
    34
35
                                                                         <source>11</source>
                                                                                                                                                                                                                                                                                            Profile As
                                                                                                                                                                                                Select Maven Profiles..
                                                                                                                                                                                                                                                           Ctrl+Alt+P
                                                                       <target>11</target>
configuration>
                                                                                                                                                                                                                                                                                             Restore from
     37
                                                     </plugin>
                                                                                                                                                                                               Disable Workspace Resolution
                                                                                                                                                                                                                                                                                            PyDev
                                            </plugins>
     38
                                                                                                                                                                                               Disable Maven Nature
     39
                                 </pluginManagement>
                                                                                                                                                                                                                                                                                            Java EE Tools
                        </build>
     40
                                                                                                                                                                                               Assign Working Sets..
                                                                                                                                                                                                                                                                                            Mayen
            </project>

■ springmvc_ctrltoui

       Spring Elements
        ▶ ₱ Deployment Descriptor: Archetype Created

■ By Java Resources

▲ Libraries

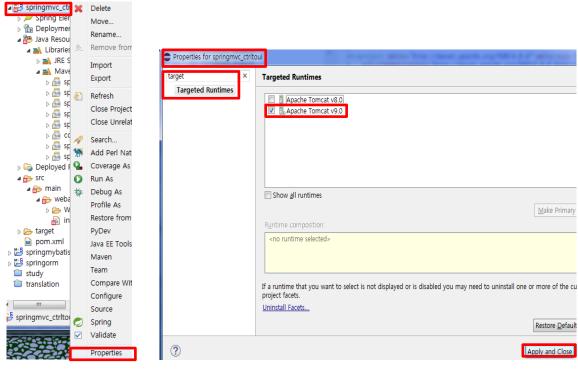
▶ March JRE System Library [JavaSE-11]
```

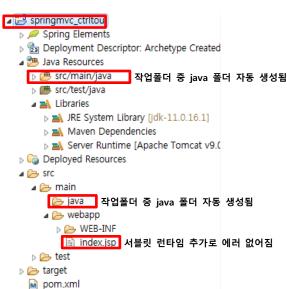

- ⊳ 🚮 spring-aop-4.3.6.RELEASE.jar C:
- ⊳ 🚮 spring-beans-4.3.6.RELEASE.jar (

- ⊿ 😝 src
 - 🛮 😝 main
 - 🛮 🗁 webapp

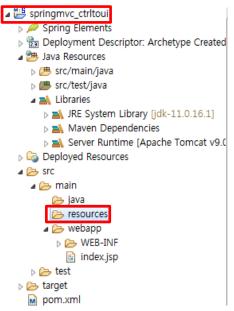
 - 🔬 index.jsp
- target
 - m pom.xml

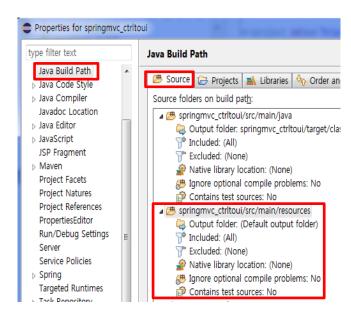
다. 서블릿 런타임 추가(2)

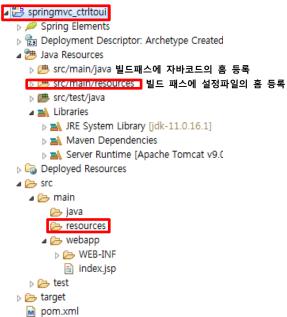




라. 리소스 폴더 생성하고 빌드 패스에 추가(3): resources







마. 디스패처 서블릿 설정: web.xml

```
x web.xml 🖂
      Spring Elements
Deployment Descriptor: Archetype Created

By Java Resources
                                                                                                                                                                                   <!DOCTYPE web-app PUBLIC
                                                                                                                                                                                          -//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
        "http://java.sun.com/dtd/web-app_2_3.dtd" >

    ▶ May JRE System Library [jdk-11.0.16.1]
    ▶ Mayen Dependencies

                                                                                                                                                                                          <display-name>Hello Spring MVC</display-name>
                      Server Runtime [Apache Tomcat v9.
Deployed Resources
                                                                                                                                                                       80
                                                                                                                                                                                                  <servlet-name>dispatcher</servlet-name>
⊿ 🍃 main
                                                                                                                                                                                                  <servlet-class>org.springframework.web.servlet.DispatcherServlet</servl</pre>
                                                                                                                                                                   10
                 java
ightarrow java
i
                                                                                                                                                                                          </servlet>
                                                                                                                                                                   11
                                                                                                                                                                                          kservlet-mapping>
                                                                                                                                                                  13⊝
                                                                                                                                                                14
                                                                                                                                                                                                   <servlet-name>dispatcher</servlet-name>
       <url-pattern>/</url-pattern> 모든 요청을 처리한다는 패턴
                                                                                                                                                                   16
17 </web-app>
```

바. 스프링 설정 파일 만들기: WEB-INF 폴더 아래

```
1 ?xml version="1.0" encoding="UTF-8"?>
                                      2⊝ peans xmlns="http://www.springframework.org/schema/beans
                                            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance
                                            xmlns:context="http://www.springframework.org/schema/context"
                                           xmlns:p="http://www.springframework.org/schema/p"
xmlns:c="http://www.springframework.org/schema/c"
🛮 🗁 main
                                            xmlns:tx="http://www.springframework.org/schema/tx"
     xsi:schemaLocation="http://www.springframework.org/schema/beans
                                            http://www.springframework.org/schema/beans/spring-beans.xsd
http://www.springframework.org/schema/context

    b com

                                     10
      resources
                                            http://www.springframework.org/schema/context/spring-context.xsd
     http://www.springframework.org/schema/tx
       13
                                            http://www.springframework.org/schema/tx/spring-tx.xsd">
                                     14
           x dispatcher-servlet.xml
                                           Kcontext:component-scan base-package="com.springmyc
            x web.xml
                                              컨트롤러 클래스 상단에 @Controller 붙여 스프링이 관리하는 빈으로 등록
         index.jsp
```

사. 뷰 리졸버 설정

```
x dispatcher-servlet.xml ⊠

■ Springmvc_ctrltoui

                                   1 <?xml version="1.0" encoding="UTF-8"?>
2⊖ <beans xmlns="http://www.springframework.org/schema/beans'
3 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   Spring Elements
  🕨 🔁 Deployment Descriptor: Hello Sprir
  ⊿ 🌁 Java Resources
                                          xmlns:context="http://www.springframework.org/schema/context"
    xmlns:p="http://www.springframework.org/schema/p"
       \boxplus com.springmvc_ctrltoui.contr
                                          xmlns:c="http://www.springframework.org/schema/c"
    b # src/main/resources
                                          xmlns:tx="http://www.springframework.org/schema/tx"
   xsi:schemaLocation="http://www.springframework.org/schema/beans

▲ ■ Libraries

                                          http://www.springframework.org/schema/beans/spring-beans.xsd
      http://www.springframework.org/schema/context
      http://www.springframework.org/schema/context/spring-context.xsd
                                  11
      🗦 ă Server Runtime [Apache Tom
                                  12
                                          http://www.springframework.org/schema/tx
                                          http://www.springframework.org/schema/tx/spring-tx.xsd">
  Deployed Resources
  <context:component-scan base-package="com.springmvc_ctrltoui.controller" />
   16
      ⊿ 🗁 java
                                  17@
        class="org.springframework.web.servlet.view.InternalResourceViewResolver"
                                  18
       resources
                                              name= "viewResolver"
                                  19
                                              20⊝
        </property>뷰 파일 저장 위치
           views
                                  23
            ispatcher-servlet.xml
                                              cproperty name= "suffix">
            x web.xml
                                  25
                                                  <value>.jsp</value>
          index.jsp
                                              </property>
                                  26
    </hear>
 target
                                  28
   m pom.xml
                                      </beans>
```

아. 컨트롤러 클래스 만들기

```
▲ B springmvc_ctrltoui

                               x dispatcher-servlet.xml
                                                       Spring Elements
                                   package com.springmvc_ctrltoui.controller;
 Deployment Descriptor: Hello Sprir
                                 3@import org.springframework.stereotype.Controller;
 import org.springframework.web.bind.annotation.RequestMapping;
   import org.springframework.web.servlet.ModelAndView;
     🛮 🏭 com.springmvc_ctrltoui.contr
                                                  dispatcher-servlet.xml
                                   @Controller <context:component-scan base-package="com.springmvc_ctrltoui.controller" />
      public class HelloController {
                                8
   b # src/main/resources
                                9
                                                                         web.xml
                                        @RequestMapping("/hello") <url-pattern>/</url-pattern> "/>
public ModelAndView hello()
   10⊝
                               11

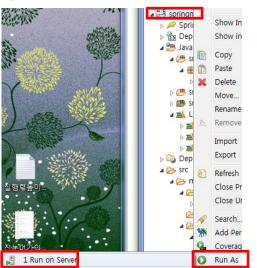
▲ Libraries

                                12
     13
                                            ModelAndView modelAndView = new ModelAndView(); dispatcher-servlet.xml
                               14
                                            modelAndView.setViewName("hello");
     name= "viewResolver"
                                15
                                            return modelAndView;
     Server Runtime (Apache Tom
                               16
                                           /WEB-INF/views/hello.jsp 호출
 Deployed Resources
                               17
                                   }
```

자. WEB-INF 아래 폴더 및 JSP 페이지 만들기

```
<%@ page language="java" contentType="text/html; charset=UTF-8</pre>
                                 pageEncoding="UTF-8"%>
                             <!DOCTYPE html>
🛮 🗁 SFC
                           4@ <html>
 a 🗁 main
                           5⊝
   🛮 🗁 java
                                     <meta charset= "UTF-8">
                           6
     ⊳ 🗁 com
                                     <title>Hello</title>
    resources
                           8
                                 </head>
   🛮 🗁 webapp
                           90
                                 <body>
     10
                                    <h1>Welcome from spring MVC</h1>
                                 </body>
                          11
       12 </html>
           hello.jsp
```

차. 실행





Welcome from spring MVC

3. 원시타입(Primitive Type)을 UI에 보내기

```
■ Springmvc_ctrltoui

 Spring Elements
 ▶ 🔁 Deployment Descriptor: Hello Spring MVC
 Java Resources

■ com.springmvc_ctrltoui.controller

      ▶ ☐ HelloController.java
     ▶ ♣ PrimitiveController.java
   🛮 🐸 src
   🛮 🐸 main
    þ 🗁 java
     resources
    🛮 🗁 primitive
            primitive.jsp
          hello.jsp
         web.xml
       index.jsp
```

m pom.xml

```
🚺 PrimitiveController.java 🛭 📓 primitive.jsp
     package com.springmvc_ctrltoui.controller;
  3⊕ import org.springframework.stereotype.Controller; ...
     @Controller
  8
     public class PrimitiveController {
          @RequestMapping("/primitive")
 10⊝
 11
          public ModelAndView primitive()
 13
               ModelAndView modelAndView = new ModelAndView();
              modelAndView.setViewName("primitive/primitive");
               modelAndView.addObject("id", 123);
modelAndView.addObject("name", "woseven");
modelAndView.addObject("salary", 1000);
 16
 17
 18
 19
 20
               return modelAndView;
 22
```

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
         pageEncoding="UTF-8"%>
  3 <!DOCTYPE html>
  4⊖ <html>
  5⊝
         <head>
             <meta charset="UTF-8">
7
             <title>Primitive</title>
         </head>
  90
         <body>
 10⊝
                 Integer id = (Integer)request.getAttribute("id");
 11
 12
                 String name = (String)request.getAttribute("name");
                 Integer salary = (Integer)request.getAttribute("salary");
 13
                                                                                               ① localhost:8080/springmyc ctrltoui/primitive
                 out.println("ID: " + id);
out.println("Name: " + name);
out.println("Salary: " + salary);
 14
 15
 16
                                                                                ID: 123 Name: woseven Salary: 1000
 17
 18
         </body>
 19 </html>
```

4. JSP Expression Language 사용

```
■ Springmvc_ctrltoui

 > P Spring Elements
 Deployment Descriptor: Hello Spring MVC

■ com.springmvc_ctrltoui.controller

      ▶ ♣ PrimitiveController.java
   b # src/main/resources
   🛮 🐸 main
    þ 📂 java
     resources
    🛮 🗁 jspexpressionlanguage
            jspexpressionlanguage.jsp
         🛮 🗁 primitive
            primitive.jsp
           hello.jsp
         dispatcher-servlet.xml
         x web.xml
       index.jsp
   > 🗁 test
 pom.xml
```

```
🗟 ispexpressionlanguage.isp 🛭 🛭 JSPExpLangController.java
  1 <%@ page language="java" contentType="text/html; charset=UTF-8"
        pageEncoding="UTF-8"%>
  3 <!DOCTYPE html>
  4⊖ <html>
             <meta charset="UTF-8">
  6
             <title>JSP Expression Language</title>
  7
         </head>
  8
  9⊝
         <body>
             ID:<b>${id}</b>
 10
 11
             Name:<b>${name}</b>
 12
             Salary:<b>${salary}</b>
         </body>
 13
14
    </html>
```

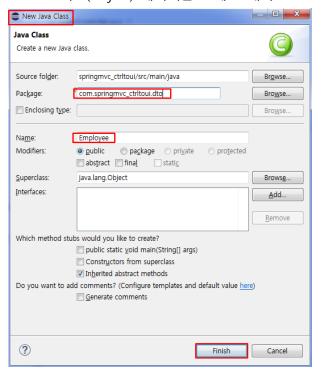
```
package com.springmvc_ctrltoui.controller;
       3⊕ import org.springframework.stereotype.Controller;[
     7 @Controller
      8 public class JSPExpLangController {
                    @RequestMapping("/jep")
                      public ModelAndView primitive()
                                 ModelAndView modelAndView = new ModelAndView();
   14
                                 modelAndView.setViewName("jspexpressionlanguage/jspexpressionlanguage");
                                                                                                                                                                                                                                                                      C ① localhost:8080/springmvc_ctrltoui/jep
                                 modelAndView.addObject("id", 123);
                                modelAndView.addObject("name", "woseven");
modelAndView.addObject("salary", 1000);
   18
   19
                                                                                                                                                                                                                                      ID:${id} Name:${name} Salary:${salary}
   20
                                 return modelAndView;
                                                                                                                                                                                                                                      JSP expression language의 기본값이 false
  21
                      }
22 }
                                                                                                                                                                                                                                      즉, isEllgnore="true"

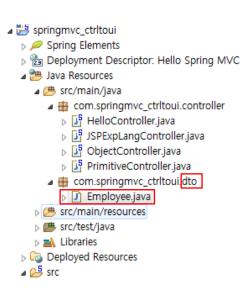
ispexpressionlanguage.jsp 

ispexplangController.java

ispexplangContr
                                                                                                                                                                     isELIgnore="false" 추가
     1 <%0 page language="java" contentType="text/htm
2 pageEncoding="UTF-8" isELIgnored="false"
       3 <!DOCTYPE html>
       4⊖ <html>
       5⊝
                           Khead>
6
                                        <meta charset="UTF-8">
                                        <title>JSP Expression Language</title>
       8
       9⊕
                         <body>
                                                                                                                                                                                                                                                                                          ① localhost:8080/springmvc_ctrltoui/jep
     10
                                        ID:<b>${id}</b>
                                        Name:<b>${name}</b>
     11
     12
                                        Salary: <b>${salary}</b>
                                                                                                                                                                                                                                        ID:123 Name:woseven Salary:1000
                           </body>
     13
     14 </html>
```

5. 오브젝트(Object) 데이터를 UI에 보내기





```
🚺 Employee.java 🛭
    package com.springmvc_ctrltoui.dto;
    public class Employee {
        private int id;
        private String name;
        private double salary;
        public int getId() {
 10
            return id;
 11
        public void setId(int id) {
 13⊖
 14
            this.id = id;
 15
 16
 17⊝
18
        public String getName() {
          return name;
 20
 21⊝
        public void setName(String name) {
 22
            this.name = name;
 23
 24
 25⊝
        public double getSalary() {
            return salary;
 27
28
                                             객체 내 필드를 getter로 하나씩 값을 가져오지 않고,
        public void setSalary(double salary) {
                                             전체를 한번에 가져오려면 Object의 toString()메소드를
 30
            this.salary = salary;
 31
                                             오버라이드 해야 함.
 32
 33⊝
        @Override
        public String toString() {
    return "Employee [id=" + id + ", name=" + name + ", salary=" + salary + "]";
△34
 35
 37 }
                                           🚺 ObjectController.java 🖂
                                               package com.springmvc_ctrltoui.controller;
                                            3⊕ import org.springframework.stereotype.Controller; ...
                                               @Controller

■ Springmvc_ctrltoui

                                           10 public class ObjectController {
   > P Spring Elements
                                           11
   ▶ 🔁 Deployment Descriptor: Hello Spring M\
                                                   @RequestMapping("/object")
public ModelAndView object()
                                           12⊝
   13
     14
                                                        ModelAndView modelAndView = new ModelAndView();
modelAndView.setViewName('object/object');

■ com.springmvc_ctrltoui.controller

                                           15
          ▶ If HelloController.java
                                           16
          17
                                           18
                                                       Employee employee = new Employee();
         employee.setId(1234);
          ▶ ☐ PrimitiveController.java
                                           19
                                           20
21
22
                                                        employee.setName("woseven");

▲ ⊕ com.springmvc_ctrltoui.dto

                                                       employee.setSalary(20000);
          ▶ I Employee.java
     23
                                                        modelAndView.addObject("employee", employee);
     25
                                                        return modelAndView;
   Deployed Resources
                                                   }
                                           26
```

27

```
6. 오브젝트 뷰 만들기

■ springmvc_ctrltoui

 > P Spring Elements
  ▶ ₺ Deployment Descriptor: Hello Spring
 > 🌁 src/main/java
   Deployed Resources
  🛮 📂 src
   🛮 🐸 main
     Þ 🗁 java
       resources
                                  1 <%@ page language="java" contentType="text/html; charset=UTF-8"
       pageEncoding="UTF-8" isELIgnored="false" %>
         3 <!DOCTYPE html>
            > 📂 jspexpressionlanguage
            🛮 🗁 object
                                   4⊖ <html>
               object.jsp
                                   50 (head)
            primitive
                                           <meta charset="UTF-8">
             hello.jsp
                                           <title>JSP Object</title>
           dispatcher-servlet.xml
                                                                                             C

    localhost:8080/springmvc_ctrltoui/object

                                  8
                                       </head>
           x web.xml
                                   9⊕
         index.jsp
                                      %= request.getAttribute("employee") %>
                                  10
   þ 📂 test
                                                                                     Employee [id=1234, name=woseven, salary=20000.0]
                                        </body>
  12 </html>
   m pom.xml
    <%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
        pageEncoding="UTF-8" isELIgnored="false" %>
  3 <!DOCTYPE html>
  4⊖ <html>
 5⊝
        <head>
            <meta charset="UTF-8">
           <title>JSP Object</title>
        </head>
 8
 90
        <body>
 10
        <%= request.getAttribute("employee") %>
11

    localhost:8080/springmvc_ctrltoui/object

12
        <br />
13
       <b>${employee}</b>
14
                                                                    Employee [id=1234, name=woseven, salary=20000.0]
15
16
        </body>
                                                                   Employee [id=1234, name=woseven, salary=20000.0]
18 </html>
<%0 page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8" isELIgnored="false" %>
  3 <!DOCTYPE html>
  4⊖ <html>
  5⊝
         <head>
            <meta charset="UTF-8">
  6
             <title>JSP Object</title>
         </head>
  8
  9⊜
         <body>
 10
         <%= request.getAttribute("employee") %>
 11
 12
         <br />
 13
 14
         <b>${employee}</b>
 15
                                                                                      (i) localhost:8080/springmvc_ctrltoui/object
 16
         <br />
 17
 18
        <b>ID: ${employee.id}</b>
                                                                      Employee [id=1234, name=woseven, salary=20000.0]
 19
        <box>b>Name: ${employee.name}</b>
 20
         <b>Salary: ${employee.salary}</b>
                                                                      Employee [id=1234, name=woseven, salary=20000.0]
 21
 22
         </body>
                                                                      D: 1234 Name: woseven Salary: 20000.0
 24 </html>
```

7. 리스트(List) 컨트롤러 만들기

```
🚺 ListController.java 🔀
                                                             import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;
                                                             import org.springframework.web.servlet.ModelAndView;
                                                         10 import com.springmvc_ctrltoui.dto.Employee;
                                                            @Controller
                                                             public class ListController {
                                                         13
                                                         14
                                                                 @RequestMapping("/list")
public ModelAndView list()
                                                         16
                                                                      ModelAndView modelAndView = new ModelAndView();
modelAndView.setViewName("list/list");
                                                         20
21
                                                                      Employee employee1 = new Employee();
employee1.setId(1234);
employee1.setName("woseven");
employee1.setSalary(20000);
                                                         22
23
24
                                                         25
26
27
                                                                      Employee employee2 = new Employee();
employee2.setId(II22);

■ Springmvc ctrltoui

                                                                      employee2.setName("windy72");
employee2.setSalary(10000);
                                                         28
   30
   Deployment Descriptor: Hello Spring M'
                                                                      Employee employee3 = new Employee();
employee3.setId(2233);
employee3.setName("keunbae");
   34
                                                                      employee3.setSalary(5000);
        ▶ If HelloController.java
                                                                     List<Employee> employees = new ArrayList<Employee>();
                                                         36
             37
38
                                                                      employees.add(employee2):
           39
40
                                                                      employees.add(employee3);
            modelAndView.addObject("employees", employees);
            ▶ Is PrimitiveController.java
                                                                      return modelAndView:

■ com.springmvc_ctrltoui.dto

            44 }
```

8. 리스트(List) 뷰 만들기

가. JSTL 미적용

```
🖹 list.jsp 🛭
                                                          <%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8" isELIgnored="false"
import="com.springmvc_ctrltoui.dto.Employee, java.util.List" %>
<!DOCTYPE html>

■ Springmvc_ctrltoui

   > P Spring Elements
                                                        5⊖ <html>
6⊝ <head>
   Deployment Descriptor: Hello Spring MVC
   <meta charset="UTF-8">
<title>JSP List</title>
      </head>
         ▲ 🖶 com.springmvc_ctrltoui.controller
                                                                <body>
                                                                     .,.
<h3>첫번째</h3>
           11⊖
                                                      129
           List<Employee> employees = (List<Employee>)request.getAttribute("employees");
                                                     13
                                                      14
15
           for(Employee e : employees)
           out.println(e.getId());
out.println(e.getName());
out.println(e.getSalary());
out.println("<br />");
                                                      16
17
18
           ▶ ☐ PrimitiveController.java

■ com.springmvc_ctrltoui.dto

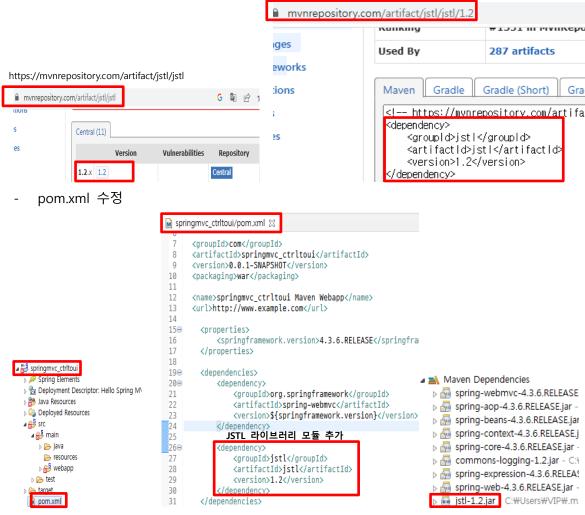
                                                      19
20
21
22
23
24
25
26
27
28
29©
           b # src/main/resources
                                                                     <br />
      Libraries
                                                                     <h3>두번째</h3>
                                                                    <br/><b>${employees}</b><br/><br/>
   Deployed Resources
   🛮 🔑 main
                                                                     <h3>세번째</h3>
        þ 🍃 java
                                                                         for(int i = 0; i < employees.size(); i++)</pre>
                                                      30
31
32
33
34
          resources
                                                                              out.println(employees.get(i).getId());
         out.println(employees.get(i).getName());
out.println(employees.get(i).getSalary());
           ▲ 🔑 WEB-INF
                                                      35
36
37
              out.println("<br />");

▲ jspexpressionlanguage

                      ispexpressionlanguage.jsp
                                                                     <br />
                                                                </body>
                                                      39
                 ⊿ 🔑 list
                                                      40
41 </html>
                      🔏 list.jsp
```

나. JSTL 적용

- 의존성 정보 가져오기



- Update Maven 실행
- JSPEL용 컨트롤러 만들기

```
■ Springmvc_ctrltoui

                                        package com.springmvc_ctrltoui.controller;
 Spring Elements
 ▶ 🔁 Deployment Descriptor: Hello Sprin
                                     3⊕ import java.util.ArrayList;[
 ⊿ 🎥 Java Resources
   12
                                        @Controller
     ▲ # com.springmvc_ctrltoui.contr
                                    13
                                       public class ListJspController {
       14
       15⊜
                                           @RequestMapping("/listjsp")
       public ModelAndView list()
                                    16
       17
                                               ModelAndView modelAndView = new ModelAndView();
modelAndView.setViewName
("list/listjsp");
       DijectController.java
                                    18
                                    19
       ▶ FimitiveController.java
```

- JSTL 용 뷰 페이지 만들기



인덱스: 1 아이디: 1234 이름: woseven 연봉: 20000.0 인덱스: 2 아이디: 1122 이름: windy72 연봉: 10000.0 인덱스: 3 아이디: 2233 이름: keunbae 연봉: 5000.0