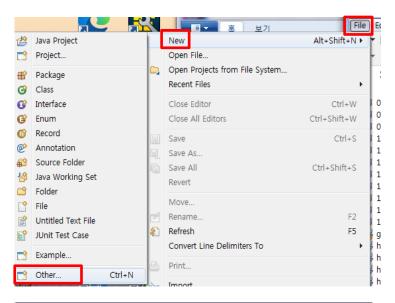
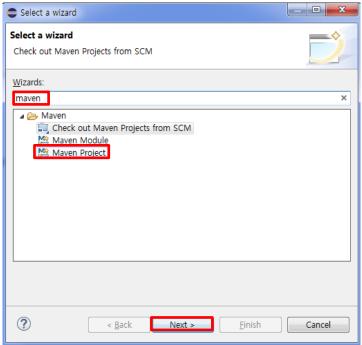
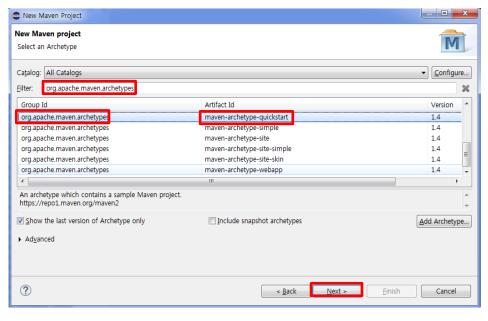
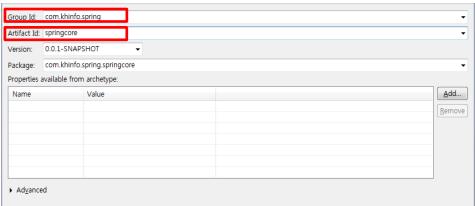
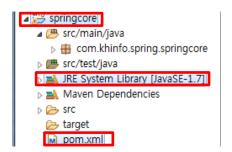
1. 메이븐 프로젝트 만들기

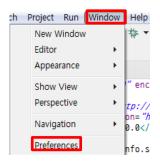


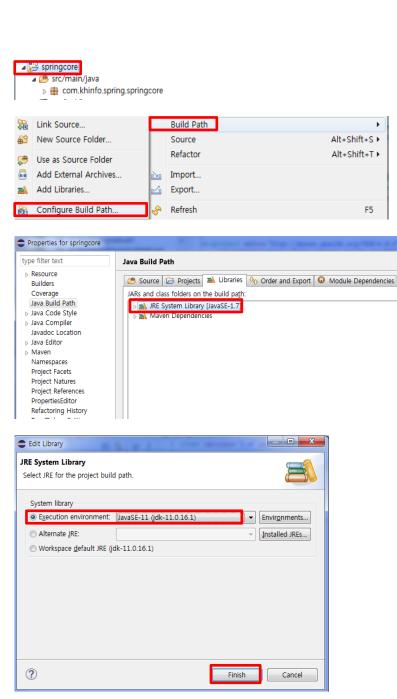












- - X

<> → <> → 8

Add JARs...

Add External JARs...

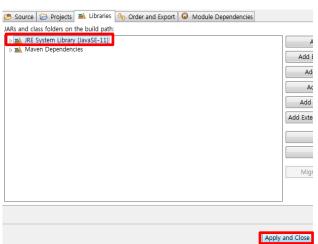
Add <u>V</u>ariable...

Add Library...

Add Class Folder...

Add External Class Folder...

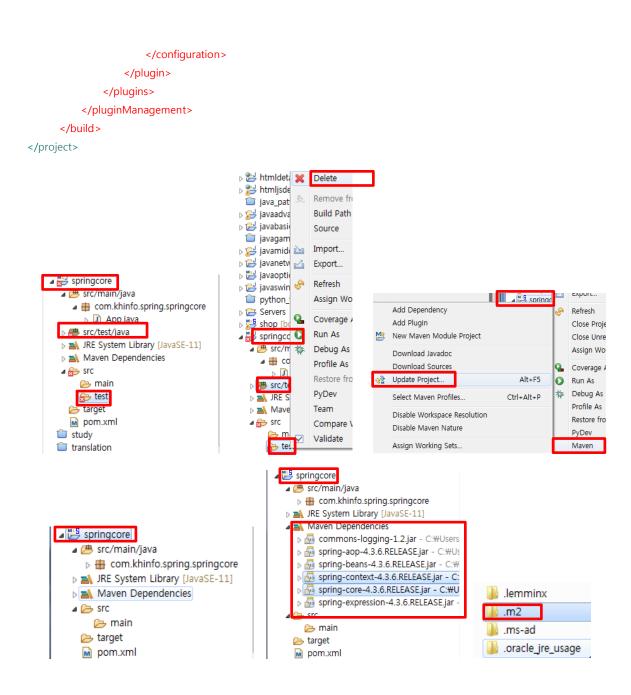
<u>E</u>dit...



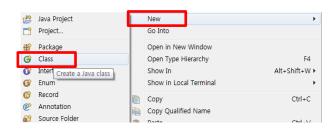
```
C:#Windows#system32#CMD.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corpora
C:#Users#UIP>javac -version
javac 11.0.16.1
C:#Users#UIP>_
```

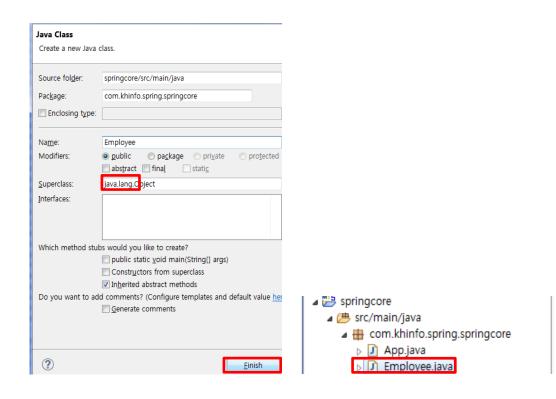
pom.xml

```
<?xml version= "1.0" encoding= "UTF-8"?>
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
   <groupId>com.khinfo.spring</groupId>
   <artifactld>springcore</artifactld>
   <version>0.0.1-SNAPSHOT</version>
   <packaging>jar</packaging>
   <name>springcore</name>
   <url>http://maven.apache.org</url>
   cproperties>
       <springframework.version>4.3.6.RELEASE/springframework.version>
   </properties>
   <dependencies>
       <dependency>
           <groupId>org.springframework
           <artifactld>spring-core</artifactld>
           <version>${springframework.version}</version>
       </dependency>
       <dependency>
           <groupId>org.springframework</groupId>
           <artifactId>spring-context</artifactId>
           <version>${springframework.version}</version>
       </dependency>
   </dependencies>
   <build>
       <plu><pluginManagement></pl>
           <plugins>
              <plugin>
                  <groupId>org.apache.maven.plugins</groupId>
                  <artifactId>maven-compiler-plugin</artifactId>
                  <version>3.8.0</version>
                  <configuration>
                      <source>11</source>
                      <target>11</target>
```



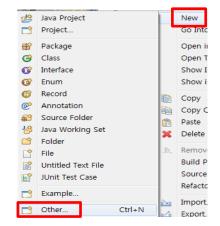
- 2. 자바빈 생성
- 2.1 DI에 대한 3단계
 - 가. POJO(Plain Old Java Object) 클래스 만들기



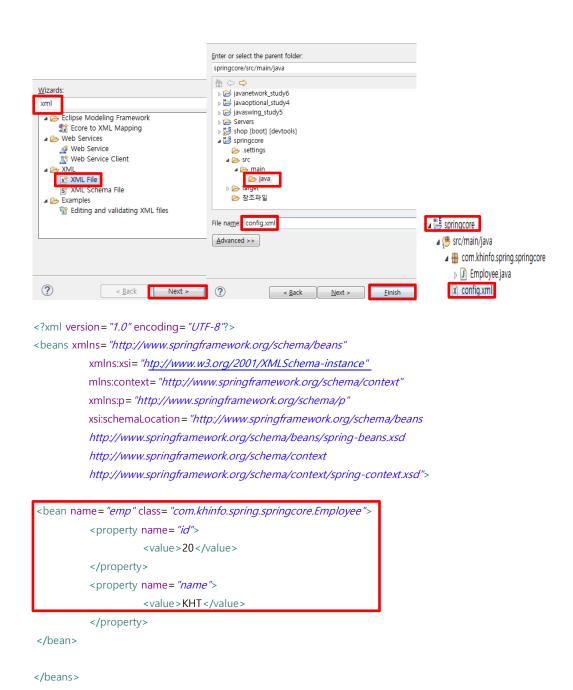


```
☑ Employee.java ⋈
                                                                     package com.khinfo.spring.springcore;
                                                                     public class Employee {
                                                                          private int id;
private String name;
                                                                          public int getId() {
    return id;
                                                                 10
                                                                 11
12⊝
                                                                          public void setId(int id) {
    this.id = id;
                                                                 13
                                                                 14
15
16⊝
                                                                          public String getName() {
                                                                 17
18
19
                                                                               return name;
🚺 Employee.java 💢
      package com.khinfo.spring.springcore;
                                                                20⊖
21
22
23
24 }
                                                                          public void setName(String name)
                                                                               this.name = name;
      public class Employee {
  5
```

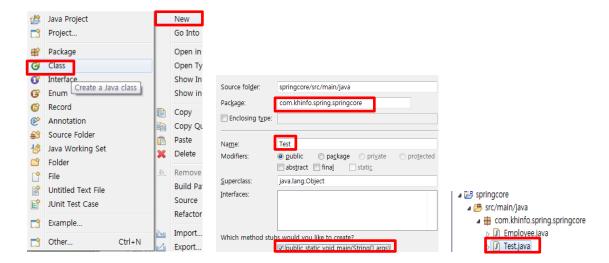
나. 설정파일 만들기







다. 테스트 클래스 만들기



- 3. 컬렉션 주입
- 가. 컬렉션 타입
- List

```
<bean>
  cproperty name="productIds">
        <>        
        <value>10 
        <value> 20 
        <null/>
```

- Set: 중복을 허용하지 않음

Map:

```
<bean>
<map>
<map>
<entry key="100" value="IPhone" />
```

- Properties: HashTable의 하위 클래스, 키와 값을 문자열로 제한

```
<bean>
<property name="languages">
<props>
<prop key="USA">English</prop>
```

- 4. 리스트
- 가. 개발 요약

Hospital	Spring Bean
String name	Configuration File
List <string> departments</string>	⁵ Test Class

- 나. 스프링 빈 생성
- 다. 설정 파일 생성
- 라. 테스트 클래스 생성
- 마. 실행
- 5. Set
- 가. 개발요약

CarDealer	Spring Bean	
String name	Configuration File	
List <string> models</string>	Test Class	

- 나. 스프링 빈 생성
- 다. 설정 파일 생성
- 라. 테스트 클래스 생성
- 마. 실행
- 6. Map

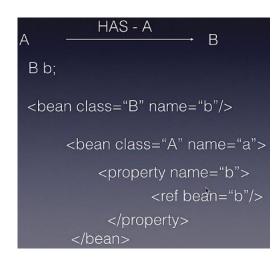


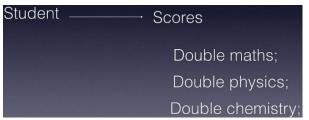
7. Properties

```
Languages

Properties countryAndLangs;
```

8. 레퍼런스 타입





9. 레퍼런스 타입: 속성과 P 스키마

10. 세터주입 정리



Primitives	Collections	Objects
value element	List	<ref></ref>
value attribute	Set	<bean< td=""></bean<>
P Schema	Мар	ref="">
	Properties	Þ

11. 과제

ShoppingCart ———	→ Item	
	id	int
	name	String
Street, or other Designation of the last	price	double
	quantity	int