Setter Injection with Map Example

1. [Setter Injection with Map Example](http://www.javatpoint.com/spring-tutorial-setter-injection-with-map)

In this example, we are using **map** as the answer for a question that have answer as the key and username as the value. Here, we are using key and value pair both as a string.

Like previous examples, it is the example of forum where **one question can have multiple answers**.

**Question.java**

This class contains three properties, getters & setters and displayInfo() method to display the information.

1. **package** com.javatpoint;
2. **import** java.util.Iterator;
3. **import** java.util.Map;
4. **import** java.util.Set;
5. **import** java.util.Map.Entry;
7. **public** **class** Question {
8. **private** **int** id;
9. **private** String name;
10. **private** Map<String,String> answers;
12. //getters and setters
14. **public** **void** displayInfo(){
15. System.out.println("question id:"+id);
16. System.out.println("question name:"+name);
17. System.out.println("Answers....");
18. Set<Entry<String, String>> set=answers.entrySet();
19. Iterator<Entry<String, String>> itr=set.iterator();
20. **while**(itr.hasNext()){
21. Entry<String,String> entry=itr.next();
22. System.out.println("Answer:"+entry.getKey()+" Posted By:"+entry.getValue());
23. }
24. }
25. }

**applicationContext.xml**

The **entry** attribute of **map** is used to define the key and value information.

1. <?xml version="1.0" encoding="UTF-8"?>
2. <beans
3. xmlns="http://www.springframework.org/schema/beans"
4. xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
5. xmlns:p="http://www.springframework.org/schema/p"
6. xsi:schemaLocation="http://www.springframework.org/schema/beans
7. http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">
9. <bean id="q" **class**="com.javatpoint.Question">
10. <property name="id" value="1"></property>
11. <property name="name" value="What is Java?"></property>
12. <property name="answers">
13. <map>
14. <entry key="Java is a programming language"  value="Sonoo Jaiswal"></entry>
15. <entry key="Java is a Platform" value="Sachin Yadav"></entry>
16. </map>
17. </property>
18. </bean>
20. </beans>

**Test.java**

This class gets the bean from the applicationContext.xml file and calls the displayInfo() method.

1. **package** com.javatpoint;
3. **import** org.springframework.beans.factory.BeanFactory;
4. **import** org.springframework.beans.factory.xml.XmlBeanFactory;
5. **import** org.springframework.core.io.ClassPathResource;
6. **import** org.springframework.core.io.Resource;
8. **public** **class** Test {
9. **public** **static** **void** main(String[] args) {
10. Resource r=**new** ClassPathResource("applicationContext.xml");
11. BeanFactory factory=**new** XmlBeanFactory(r);
13. Question q=(Question)factory.getBean("q");
14. q.displayInfo();
16. }
17. }