# Exercise 2: Implementing Dependency Injection

## Source code:

applicationContext.xml:  
  
<beans xmlns="http://www.springframework.org/schema/beans"  
 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">  
  
 <bean id="bookRepository" class="com.dependency\_injection.LibraryManagementApplication.BookRepository"/>  
  
 <bean id="bookService" class="com.dependency\_injection.LibraryManagementApplication.BookService">  
 <property name="bookRepository" ref="bookRepository"/>  
 </bean>  
  
</beans>

BookRepository.java:  
  
package com.dependency\_injection.LibraryManagementApplication;  
  
public class BookRepository {  
 public String getBook() {  
 return "Spring in Action by Craig Walls";  
 }  
}

BookService.java:  
  
package com.dependency\_injection.LibraryManagementApplication;  
  
public class BookService {  
 private BookRepository bookRepository;  
  
 public void setBookRepository(BookRepository bookRepository) {  
 this.bookRepository = bookRepository;  
 }  
  
 public String showBook() {  
 return bookRepository.getBook();  
 }  
}

LibraryManagementApplication.java:  
  
package com.dependency\_injection.LibraryManagementApplication;  
  
import org.springframework.context.ApplicationContext;  
import org.springframework.context.support.ClassPathXmlApplicationContext;  
  
public class LibraryManagementApplication {  
 public static void main(String[] args) {  
 ApplicationContext context = new ClassPathXmlApplicationContext("applicationContext.xml");  
  
 BookService service = (BookService) context.getBean("bookService");  
 System.out.println(service.showBook());  
 }  
}

Output:

