**Spring Core Maven**

**EXERCISE 1: Configuring a Basic Spring Application**

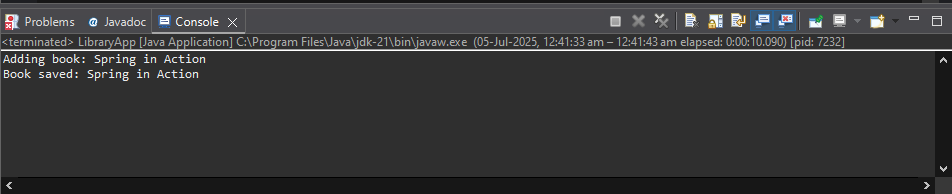
**Source Code**

* **/LibraryManagement** –
  + /LibraryManagement/**src/main/java**

Create three packages

* + - com.library.main
    - com.library.repository
    - com.library.service
* In -> com.library.main, Create **/LibraryApp.java**
* package com.library.main;
* import org.springframework.context.ApplicationContext;
* import org.springframework.context.support.ClassPathXmlApplicationContext;
* import com.library.service.BookService;
* public class LibraryApp {
* public static void main(String[] args) {
* ApplicationContext context = new ClassPathXmlApplicationContext("applicationContext.xml");
* BookService bookService = (BookService) context.getBean("bookService");
* bookService.addBook("Spring in Action");
* }
* }
* In com.library.repository, Create **/BookRepository.java**
* package com.library.repository;
* public class BookRepository {
* public void saveBook(String title) {
* System.***out***.println("Book saved: " + title);
* }
* }
* In com.library.service, Create **/BookService.java**
* package com.library.service;
* import com.library.repository.BookRepository;
* public class BookService {
* private BookRepository bookRepository;
* // Setter Injection
* public void setBookRepository(BookRepository bookRepository) {
* this.bookRepository = bookRepository;
* }
* public void addBook(String title) {
* System.***out***.println("Adding book: " + title);
* bookRepository.saveBook(title);
* }
* }
* In **/LibraryManagement/src/main/resources -> /applicationContext.xml**
* <?xml version="1.0" encoding="UTF-8"?>
* <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">
* <!-- Repository Bean -->
* <bean id="bookRepository" class="com.library.repository.BookRepository"/>
* <!-- Service Bean -->
* <bean id="bookService" class="com.library.service.BookService">
* <property name="bookRepository" ref="bookRepository"/>
* </bean>
* </beans>
* In **/LibraryManagement/pom.xml :**
* <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
* https://maven.apache.org/xsd/maven-4.0.0.xsd">
* <modelVersion>4.0.0</modelVersion>
* <groupId>com.library</groupId>
* <artifactId>LibraryManagement</artifactId>
* <version>0.0.1-SNAPSHOT</version>
* <properties>
* <maven.compiler.source>1.8</maven.compiler.source>
* <maven.compiler.target>1.8</maven.compiler.target>
* </properties>
* <dependencies>
* <!-- ✅ Spring Core Context -->
* <dependency>
* <groupId>org.springframework</groupId>
* <artifactId>spring-context</artifactId>
* <version>5.3.32</version>
* </dependency>
* <dependency>
* <groupId>commons-logging</groupId>
* <artifactId>commons-logging</artifactId>
* <version>1.2</version>
* </dependency>
* </dependencies>
* </project>
* **Right click on LibraryApp.java -> Run As -> Java Application**

**Output**

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