**Spring Core and Maven**

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

**Exercise 2: Implementing Dependency Injection**

**Exercise 4: Creating and Configuring a Maven Project**

**Code:**

BookRepository.java

**package** com.library.repository;

**public** **class** BookRepository {

**public** **void** fetchBook() {

System.***out***.println("Fetching Books from Repository");

}

}

BookService.java

**package** com.library.service;

**import** com.library.repository.BookRepository;

**public** **class** BookService {

**private** BookRepository bookRepository;

**public** BookRepository getBookRepository() {

**return** bookRepository;

}

**public** **void** setBookRepository(BookRepository bookRepository) {

**this**.bookRepository = bookRepository;

}

**public** **void** displayBook() {

System.***out***.println("Running Service class");

bookRepository.fetchBook();

}

}

Main.java

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import com.library.service.BookService;

public class Main {

public static void main(String[] args) {

ApplicationContext context=new ClassPathXmlApplicationContext("applicationContext.xml");

BookService service=(BookService) context.getBean("BookService");

service.displayBook();

}

}

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"*>

<bean id=*"BookRepo"* class=*"com.library.repository.BookRepository"*></bean>

<bean id=*"BookService"* class=*"com.library.service.BookService"*>

<property name=*"bookRepository"* ref=*"BookRepo"*></property>

</bean>

</beans>

**Output:**

