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

***Scenario:***

*Your company is developing a web application for managing a library. You need to use the Spring Framework to handle the backend operations.*

***Steps:***

1. ***Set Up a Spring Project:***
   * *Create a Maven project named* ***LibraryManagement****.*
   * *Add Spring Core dependencies in the* ***pom.xml*** *file.*
2. ***Configure the Application Context:***
   * *Create an XML configuration file named* ***applicationContext.xml*** *in the* ***src/main/resources*** *directory.*
   * *Define beans for* ***BookService*** *and* ***BookRepository*** *in the XML file.*
3. ***Define Service and Repository Classes:***
   * *Create a package* ***com.library.service*** *and add a class* ***BookService****.*
   * *Create a package* ***com.library.repository*** *and add a class* ***BookRepository****.*
4. ***Run the Application:***
   * *Create a main class to load the Spring context and test the configuration.*

***Exercise 2: Implementing Dependency Injection***

***Scenario:***

*In the library management application, you need to manage the dependencies between the BookService and BookRepository classes using Spring's IoC and DI.*

***Steps:***

1. ***Modify the XML Configuration:***
   * *Update* ***applicationContext.xml*** *to wire* ***BookRepository*** *into* ***BookService****.*
2. ***Update the BookService Class:***
   * *Ensure that* ***BookService*** *class has a setter method for* ***BookRepository****.*
3. ***Test the Configuration:***
   * *Run the* ***LibraryManagementApplication*** *main class to verify the dependency injection.*

* + *messages indicating method execution times.*

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

***Scenario:***

*You need to set up a new Maven project for the library management application and add Spring dependencies.*

***Steps:***

1. ***Create a New Maven Project:***
   * *Create a new Maven project named* ***LibraryManagement****.*
2. ***Add Spring Dependencies in pom.xml:***
   * *Include dependencies for Spring Context, Spring AOP, and Spring WebMVC.*
3. ***Configure Maven Plugins:***
   * *Configure the Maven Compiler Plugin for Java version 1.8 in the pom.xml file.*

