| **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.  **Output:**  **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.  **Output:**    **Exercise 3: Implementing Logging with Spring AOP**  Scenario: The library management application requires logging capabilities to track 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. **(The behaviour of exercise 3 and exercise 4 will not change)**    **Exercise 5: Configuring the Spring IoC Container**  Scenario: The library management application requires a central configuration for beans and dependencies.  **Output:**    **Exercise 6: Configuring Beans with Annotations**  Scenario: You need to simplify the configuration of beans in the library management application using annotations.  **Output:**    **Exercise 7: Implementing Constructor and Setter Injection** Scenario: The library management application requires both constructor and setter injection for better control over bean initialization.  **Output:**    **Exercise 8: Implementing Basic AOP with Spring**  Scenario: The library management application requires basic AOP functionality to separate cross-cutting concerns like logging and transaction management.  **Output:**    **Exercise 9: Creating a Spring Boot Application**  Scenario: You need to create a Spring Boot application for the library management system to simplify configuration and deployment.  **Output:** |
| --- |