**Digital Nurture 4.0 Deep Skilling**

**Week 3**

**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.

**Code :**

**Adding dependencies to pom.xml and creation of packages and classes.**

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**MainApp.java.**

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**BookService.java**

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**BookRepository.java**

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**Output :**

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**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.

**Code :**

**applicationContext.xml to wire BookRepository into BookService.**

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BookServices.java

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MainApp.java

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Output :

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**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.

**Code :**

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**Exercise 5: Configuring the Spring IoC Container**

**Scenario:**

The library management application requires a central configuration for beans and dependencies.

**Code:**

**MainApp.java.**

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applicationContext.xml

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BookService.java

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BookRepository.java

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Output :

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**Exercise 7: Implementing Constructor and Setter Injection**

**Scenario:**

The library management application requires both constructor and setter injection for better control over bean initialization.

**Code:**

**MainApp.java**

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**BookService.java**

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**BookRepository.java**

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**applicationContext.xml**

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**Output :**

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**spring-data-jpa-handson**

**Hands on 1**

**Spring Data JPA - Quick Example**

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Output :

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**Hands on 4**

**Difference between JPA, Hibernate and Spring Data JPA**

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Output :

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Get Method :

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Post Method :

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