**SPRING CORE\_MAVEN**

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

**Description:**

To use Spring features, we need to add the Spring Context dependency to Maven. This brings in core Spring libraries required for bean management and the application context.

**Code:**

<!-- pom.xml -->

<dependencies>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

<version>5.3.32</version>

</dependency>

</dependencies>

**Description:**

Create a simple class called MyService. This will act as a Spring Bean, which Spring will manage (create and inject where needed).

**Code:**

// src/main/java/com/example/MyService.java

package com.example;

public class MyService {

public void doSomething() {

System.out.println("MyService is doing something!");

}

}

**Description:**

Create an XML file (applicationContext.xml) that tells Spring how to create and manage beans.

**Code:**

<!-- 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>">

<bean id="myService" class="com.example.MyService"/>

</beans>

**Description:**

Create a class with a main() method that loads the Spring context, retrieves the bean, and calls a method on it.

**Code:**

// src/main/java/com/example/App.java

package com.example;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class App {

public static void main(String[] args) {

// Load the Spring container using the XML configuration

ApplicationContext context =

new ClassPathXmlApplicationContext("applicationContext.xml");

// Get the bean named "myService" and cast it to MyService

MyService service = context.getBean("myService", MyService.class);

// Call the method on the bean

service.doSomething();

}

}

**OUTPUT:**

