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

**Pom.xml**

<project xmlns="http://maven.apache.org/POM/4.0.0"  
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0  
 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
  
 <groupId>com.library</groupId>  
 <artifactId>LibraryManagement</artifactId>  
 <version>1.0-SNAPSHOT</version>  
  
 <!-- ✅ Step 3: Configure Maven Compiler Plugin for Java 1.8 -->  
 <properties>  
 <maven.compiler.source>1.8</maven.compiler.source>  
 <maven.compiler.target>1.8</maven.compiler.target>  
 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>  
 </properties>  
  
 <dependencies>  
 <!-- Spring Context -->  
 <dependency>  
 <groupId>org.springframework</groupId>  
 <artifactId>spring-context</artifactId>  
 <version>5.3.30</version>  
 </dependency>  
  
 <!-- Spring AOP -->  
 <dependency>  
 <groupId>org.springframework</groupId>  
 <artifactId>spring-aop</artifactId>  
 <version>5.3.30</version>  
 </dependency>  
  
 <!-- Spring Web MVC -->  
 <dependency>  
 <groupId>org.springframework</groupId>  
 <artifactId>spring-webmvc</artifactId>  
 <version>5.3.30</version>  
 </dependency>  
 </dependencies>  
  
 <build>  
 <plugins>  
 <!-- Maven Compiler Plugin -->  
 <plugin>  
 <groupId>org.apache.maven.plugins</groupId>  
 <artifactId>maven-compiler-plugin</artifactId>  
 <version>3.8.1</version> <!-- use known working version -->  
 <configuration>  
 <source>1.8</source>  
 <target>1.8</target>  
 </configuration>  
 </plugin>  
 </plugins>  
 </build>  
  
</project>

**Main.java**

package org.example;  
  
//TIP To <b>Run</b> code, press <shortcut actionId="Run"/> or  
// click the <icon src="AllIcons.Actions.Execute"/> icon in the gutter.  
public class Main {  
 public static void main(String[] args) {  
 //TIP Press <shortcut actionId="ShowIntentionActions"/> with your caret at the highlighted text  
 // to see how IntelliJ IDEA suggests fixing it.  
 System.*out*.printf("Hello and welcome!");  
  
 for (int i = 1; i <= 5; i++) {  
 //TIP Press <shortcut actionId="Debug"/> to start debugging your code. We have set one <icon src="AllIcons.Debugger.Db\_set\_breakpoint"/> breakpoint  
 // for you, but you can always add more by pressing <shortcut actionId="ToggleLineBreakpoint"/>.  
 System.*out*.println("i = " + i);  
 }  
 }  
}

Output:

