Exercise 4: Spring Core – Load Country from Spring Configuration XML

Code:

Country.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="country" class="org.example.Country">  
 <property name="name" value="India"/>  
 <property name="capital" value="New Delhi"/>  
 <property name="population" value="1393409038"/>  
 </bean>  
  
</beans>

Country.java

package org.example;  
  
public class Country {  
 private String name;  
 private String capital;  
 private long population;  
  
 public Country() {  
 }  
  
 public Country(String name, String capital, long population) {  
 this.name = name;  
 this.capital = capital;  
 this.population = population;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public void setName(String name) {  
 this.name = name;  
 }  
  
 public String getCapital() {  
 return capital;  
 }  
  
 public void setCapital(String capital) {  
 this.capital = capital;  
 }  
  
 public long getPopulation() {  
 return population;  
 }  
  
 public void setPopulation(long population) {  
 this.population = population;  
 }  
  
 @Override  
 public String toString() {  
 return "Country{" +  
 "name='" + name + '\'' +  
 ", capital='" + capital + '\'' +  
 ", population=" + population +  
 '}';  
 }  
}

SpringLearnApplication.java

package org.example;  
  
import org.slf4j.Logger;  
import org.slf4j.LoggerFactory;  
import org.springframework.context.ApplicationContext;  
import org.springframework.context.support.ClassPathXmlApplicationContext;  
  
public class SpringLearnApplication {  
  
 private static final Logger *LOGGER* = LoggerFactory.*getLogger*(SpringLearnApplication.class);  
  
 public static void main(String[] args) {  
 *LOGGER*.debug("Inside main");  
 *displayCountry*();  
 }  
  
 public static void displayCountry() {  
 ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");  
 Country country = context.getBean("country", Country.class);  
 *LOGGER*.debug("Country : {}", country.toString());  
 }  
}

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 https://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
  
 <groupId>com.cognizant</groupId>  
 <artifactId>spring-learn</artifactId>  
 <version>0.0.1-SNAPSHOT</version>  
  
 <properties>  
 <java.version>21</java.version>  
 </properties>  
  
 <dependencies>  
 <!-- Spring Context for XML-based configuration -->  
 <dependency>  
 <groupId>org.springframework</groupId>  
 <artifactId>spring-context</artifactId>  
 <version>6.1.4</version>  
 </dependency>  
  
 <!-- SLF4J and Logback for logging -->  
 <dependency>  
 <groupId>org.slf4j</groupId>  
 <artifactId>slf4j-api</artifactId>  
 <version>2.0.12</version>  
 </dependency>  
  
 <dependency>  
 <groupId>ch.qos.logback</groupId>  
 <artifactId>logback-classic</artifactId>  
 <version>1.4.11</version>  
 </dependency>  
 </dependencies>  
  
 <build>  
 <plugins>  
 <!-- Maven Compiler Plugin -->  
 <plugin>  
 <groupId>org.apache.maven.plugins</groupId>  
 <artifactId>maven-compiler-plugin</artifactId>  
 <version>3.11.0</version>  
 <configuration>  
 <source>21</source>  
 <target>21</target>  
 </configuration>  
 </plugin>  
 </plugins>  
 </build>  
</project>

Output:

