**Spring Core – Load Country from Spring Configuration XML**   
  
An airlines website is going to support booking on four countries. There will be a drop down on the home page of this website to select the respective country. It is also important to store the two-character ISO code of each country. 

|  |  |
| --- | --- |
| **Code** | **Name** |
| US | United States |
| DE | Germany |
| IN | India |
| JP | Japan |

Above data has to be stored in spring configuration file. Write a program to read this configuration file and display the details.  
  
Steps to implement

* Pick any one of your choice country to configure in Spring XML configuration named country.xml.
* Create a bean tag in spring configuration for country and set the property and values

**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">  
  
 <!-- Individual country beans -->  
 <bean id="country1" class="com.cognizant.spring\_learn.Country">  
 <property name="code" value="US" />  
 <property name="name" value="United States" />  
 </bean>  
  
 <bean id="country2" class="com.cognizant.spring\_learn.Country">  
 <property name="code" value="DE" />  
 <property name="name" value="Germany" />  
 </bean>  
  
 <bean id="country3" class="com.cognizant.spring\_learn.Country">  
 <property name="code" value="IN" />  
 <property name="name" value="India" />  
 </bean>  
  
 <bean id="country4" class="com.cognizant.spring\_learn.Country">  
 <property name="code" value="JP" />  
 <property name="name" value="Japan" />  
 </bean>  
  
 <!-- Bean for List of Countries -->  
 <bean id="countryList" class="java.util.ArrayList">  
 <constructor-arg>  
 <list>  
 <ref bean="country1" />  
 <ref bean="country2" />  
 <ref bean="country3" />  
 <ref bean="country4" />  
 </list>  
 </constructor-arg>  
 </bean>  
</beans>

**Country.java**

package com.cognizant.spring\_learn;  
  
import org.slf4j.Logger;  
import org.slf4j.LoggerFactory;  
  
public class Country {  
 private static final Logger *LOGGER* = LoggerFactory.*getLogger*(Country.class);  
  
 private String code;  
 private String name;  
  
 public Country() {  
 *LOGGER*.debug("Inside Country Constructor.");  
 }  
  
 public String getCode() {  
 *LOGGER*.debug("Inside getCode()");  
 return code;  
 }  
  
 public void setCode(String code) {  
 *LOGGER*.debug("Inside setCode()");  
 this.code = code;  
 }  
  
 public String getName() {  
 *LOGGER*.debug("Inside getName()");  
 return name;  
 }  
  
 public void setName(String name) {  
 *LOGGER*.debug("Inside setName()");  
 this.name = name;  
 }  
  
 @Override  
 public String toString() {  
 return "Country [code=" + code + ", name=" + name + "]";  
 }  
}

SpringLearnApplication\_learn.java

package com.cognizant.spring\_learn;  
  
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;  
import org.springframework.context.ApplicationContext;  
import org.springframework.context.support.ClassPathXmlApplicationContext;  
  
import org.slf4j.Logger;  
import org.slf4j.LoggerFactory;  
  
import java.util.List;  
  
@SpringBootApplication  
public class SpringLearnApplication {  
  
 private static final Logger *LOGGER* = LoggerFactory.*getLogger*(SpringLearnApplication.class);  
  
 public static void main(String[] args) {  
 SpringApplication.*run*(SpringLearnApplication.class, args);  
 *LOGGER*.info(">>> Application Started");  
 System.*out*.println(">>> Hello from main()");  
 *displayCountries*(); // call method to load & display countries  
 }  
  
 public static void displayCountries() {  
 *LOGGER*.info(">>> Inside displayCountries()");  
 System.*out*.println(">>> Fetching countries from XML...");  
  
 try {  
 ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");  
  
 @SuppressWarnings("unchecked")  
 List<Country> countryList = (List<Country>) context.getBean("countryList");  
  
 *LOGGER*.info(">>> Country list loaded successfully.");  
 System.*out*.println(">>> Loaded Countries:");  
  
 for (Country country : countryList) {  
 *LOGGER*.debug("Country: {}", country.toString());  
 System.*out*.println(country.toString()); // print to console  
 }  
  
 } catch (Exception e) {  
 *LOGGER*.error(">>> Error loading country list", e);  
 System.*out*.println(">>> Error: " + e.getMessage());  
 }  
 }  
}

output :

