**Exercise-4: REST - Country Web Service**

**SpringLearnApplication.java**

package com.cognizant.spring\_learn;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringLearnApplication {

public static void main(String[] args) {

SpringApplication.run(SpringLearnApplication.class, args);

}

}

**CountryController.java**

package com.cognizant.spring\_learn.controller;

import com.cognizant.spring\_learn.Country;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.RestController;

@RestController

public class CountryController {

private static final Logger LOGGER = LoggerFactory.getLogger(CountryController.class);

@GetMapping(value = "/country", produces = "application/json")

public Country getCountryIndia() {

LOGGER.debug("START");

ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");

Country country = context.getBean("country", Country.class);

LOGGER.debug("Country: {}", country.toString());

LOGGER.debug("END");

return country;

}

}

**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.");

System.out.println(">>> Inside Country Constructor");

}

public void setCode(String code) {

LOGGER.debug("Inside setCode()");

System.out.println(">>> Inside setCode()");

this.code = code;

}

public String getCode() {

LOGGER.debug("Inside getCode()");

System.out.println(">>> Inside getCode()");

return code;

}

public void setName(String name) {

LOGGER.debug("Inside setName()");

System.out.println(">>> Inside setName()");

this.name = name;

}

public String getName() {

LOGGER.debug("Inside getName()");

System.out.println(">>> Inside getName()");

return name;

}

@Override

public String toString() {

return "Country [code=" + code + ", name=" + name + "]";

}

}

**application.properties**

spring.application.name=spring-learn

logging.level.root=DEBUG

server.port=8083

logging.level.com.cognizant=DEBUG

**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="com.cognizant.spring\_learn.Country">

<property name="code" value="IN"/>

<property name="name" value="India"/>

</bean>

</beans>

**Output:**

