**WEEK 4 – HANDSON**

**REST - Country Web Service**Write a REST service that returns India country details in the earlier created spring learn application.  
  
URL: /country  
Controller: com.cognizant.spring-learn.controller.CountryController  
Method Annotation: @RequestMapping  
Method Name: getCountryIndia()  
Method Implementation: Load India bean from spring xml configuration and return  
Sample Request: http://localhost:8083/country  
Sample Response:

{

  "code": "IN",

  "name": "India"

}

SME to explain the following aspects:

* What happens in the controller method?
* How the bean is converted into JSON reponse?
* In network tab of developer tools show the HTTP header details received
* In postman click on "Headers" tab to view the HTTP header details received

**CODE AND OUTPUT :**

**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.RequestMapping;  
import org.springframework.web.bind.annotation.RestController;  
  
@RestController  
public class CountryController {  
  
 private static final Logger *LOGGER* = LoggerFactory.*getLogger*(CountryController.class);  
  
 @RequestMapping("/country")  
 public Country getCountryIndia() {  
 *LOGGER*.info("START");  
  
 ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");  
 Country country = context.getBean("country", Country.class);  
  
 *LOGGER*.debug("Country: {}", country.toString());  
 *LOGGER*.info("END");  
  
 return country;  
 }  
}

**Country.java (pojo class)**

package com.cognizant.spring\_learn;  
  
public class Country {  
  
 private String code;  
 private String name;  
  
 public Country() {  
 System.*out*.println("Inside Country Constructor.");  
 }  
  
 public String getCode() {  
 System.*out*.println("Inside getCode.");  
 return code;  
 }  
  
 public void setCode(String code) {  
 System.*out*.println("Inside setCode.");  
 this.code = code;  
 }  
  
 public String getName() {  
 System.*out*.println("Inside getName.");  
 return name;  
 }  
  
 public void setName(String name) {  
 System.*out*.println("Inside setName.");  
 this.name = name;  
 }  
  
 @Override  
 public String toString() {  
 return "Country [code=" + code + ", name=" + name + "]";  
 }  
}

**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  
 https://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>





