**WEEK 4**

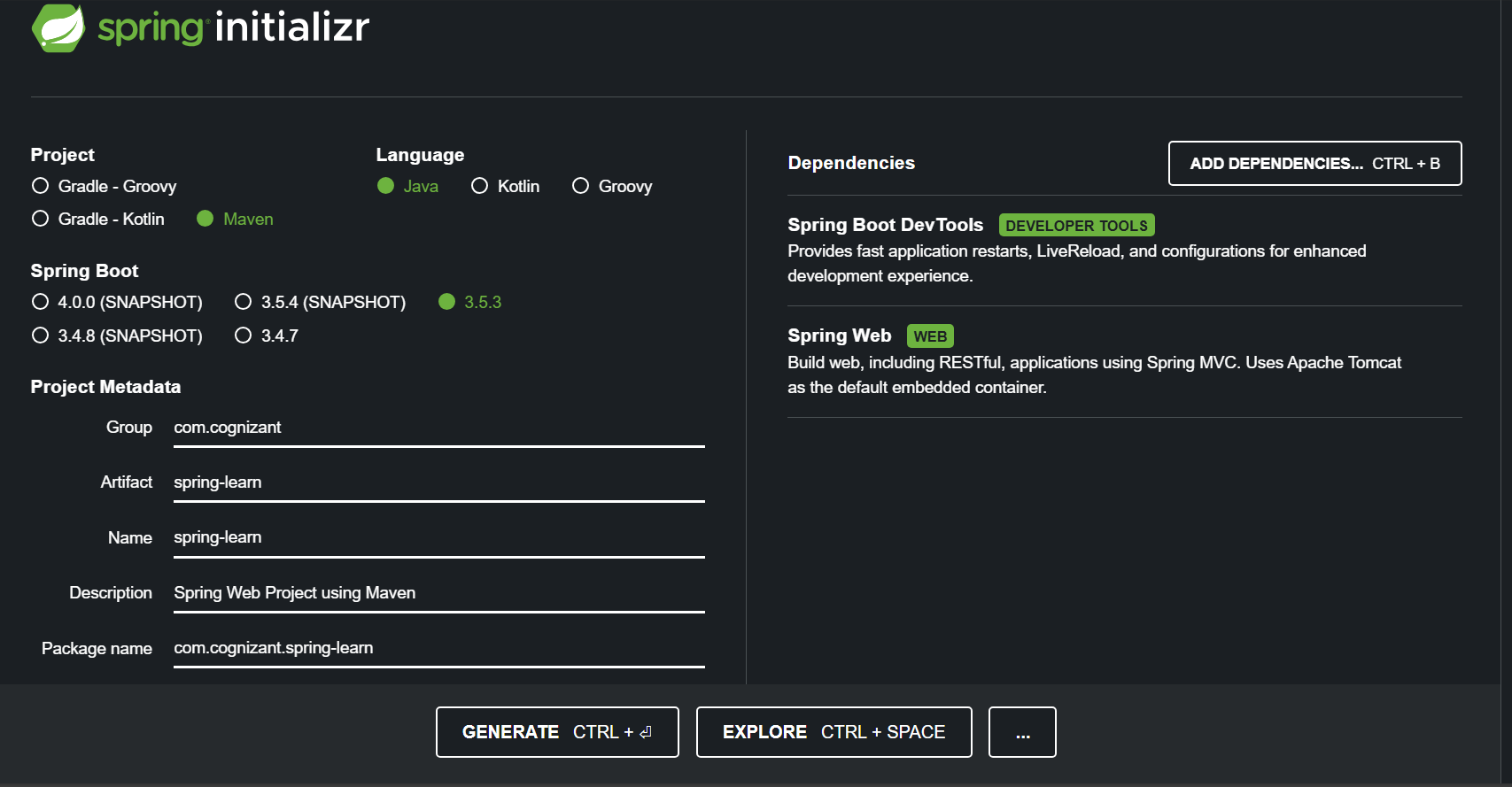
**SPRING REST USING SPRING BOOT**

**1. Spring Rest HandsOn.docx**

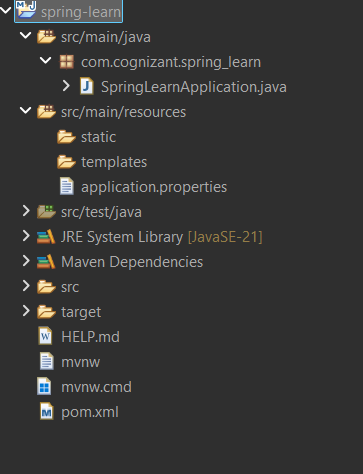
**Hands on 1**

**Create a Spring Web Project using Maven**

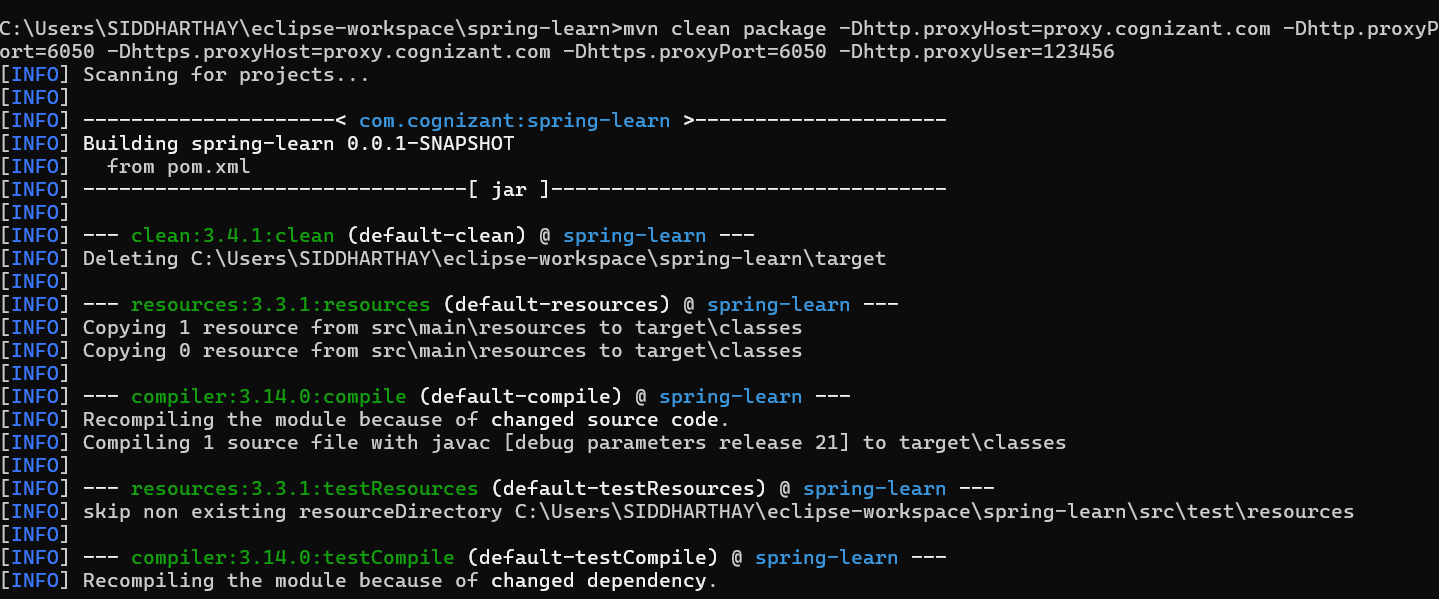
**1. Creating the Spring Web Project using Spring Initializr:**

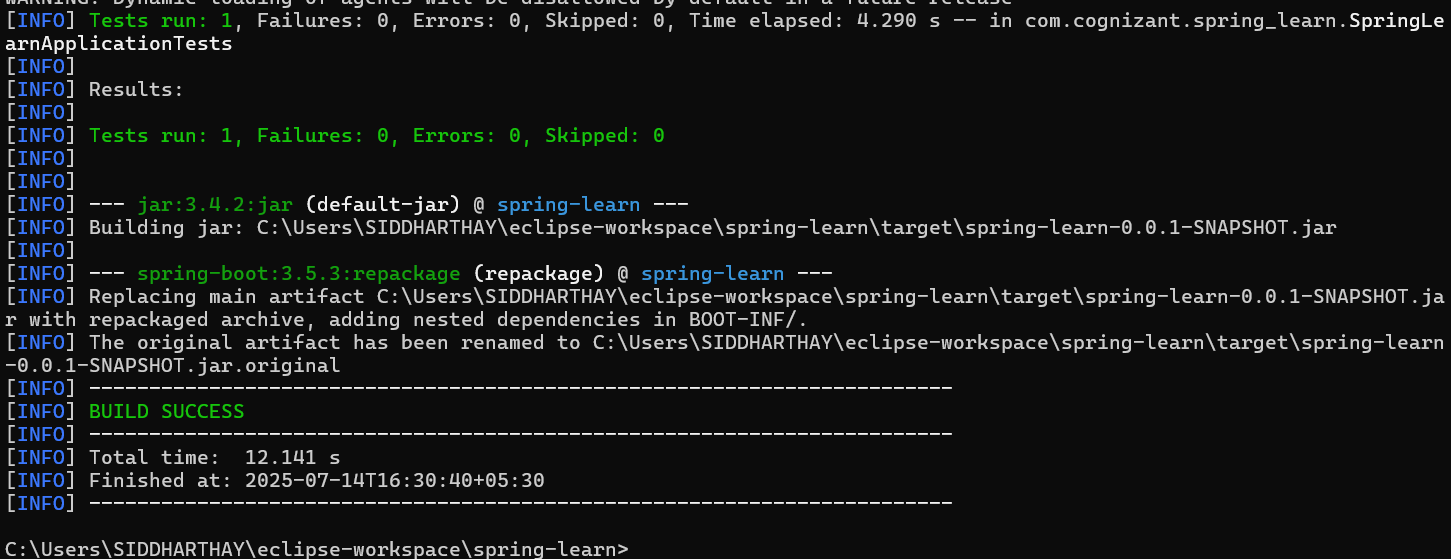


**2. Project Structure after Importing it into Eclipse:**

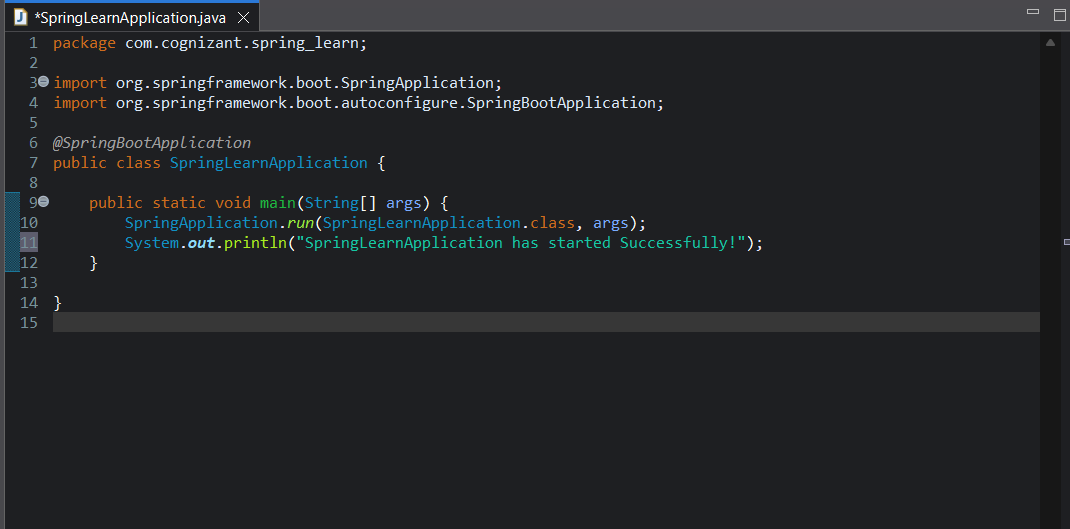


**3. Building the Project using Maven(proxy):**

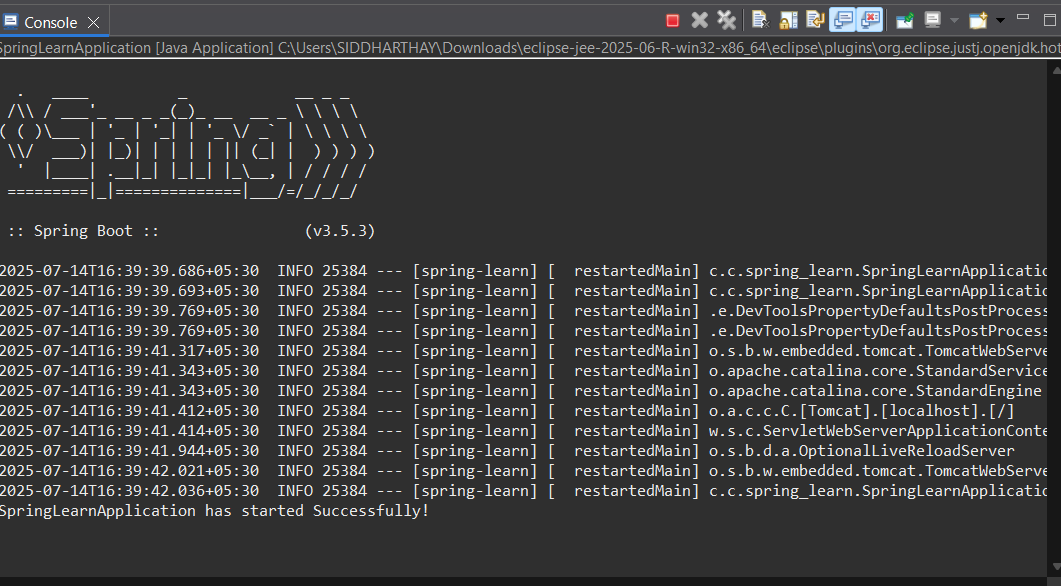




**4. Adding Logging in Main() method:**



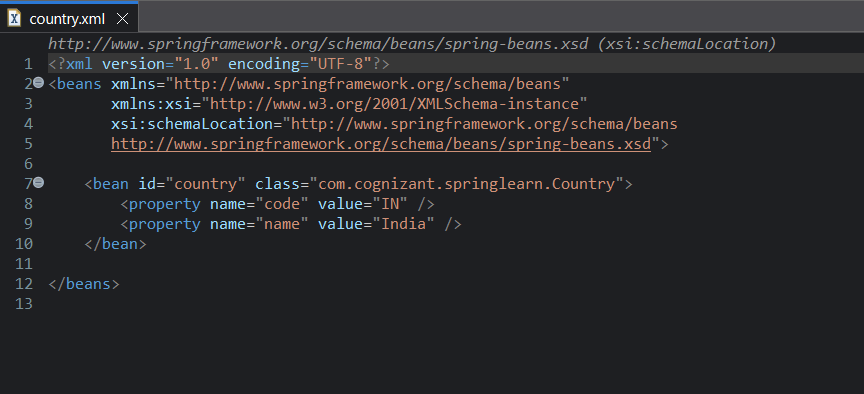
**5. Output:**



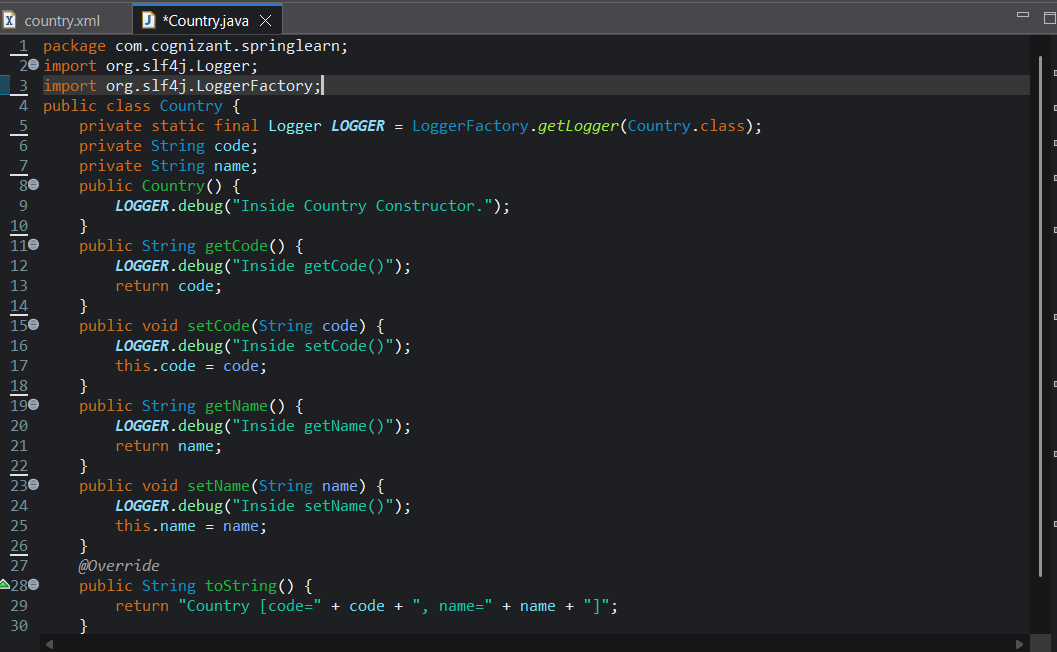
**Hands on 4**

**Spring Core – Load Country from Spring Configuration XML** 

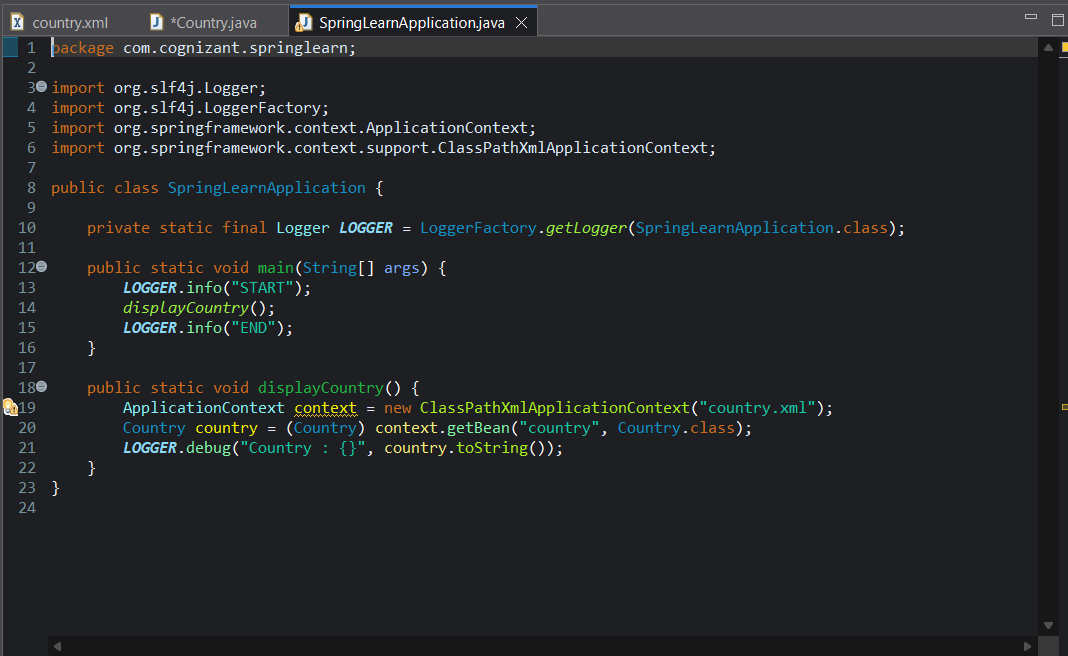
**1. country.xml config file bean definition of country class:**



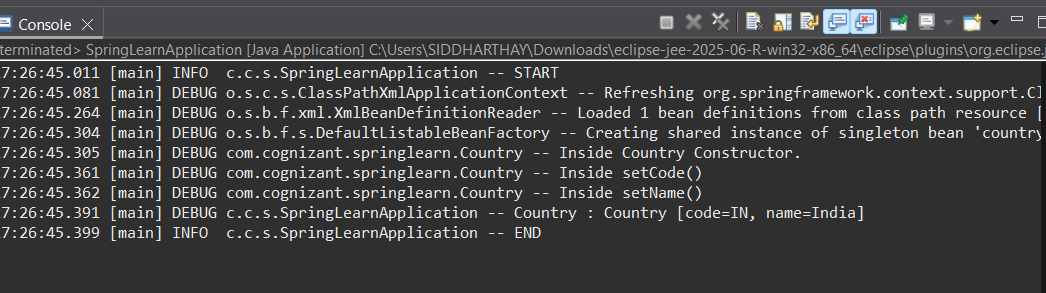
**2. Country.java shows all getter and setter methods**



**3. Main class shows displayCountry() method and how bean is loaded:**



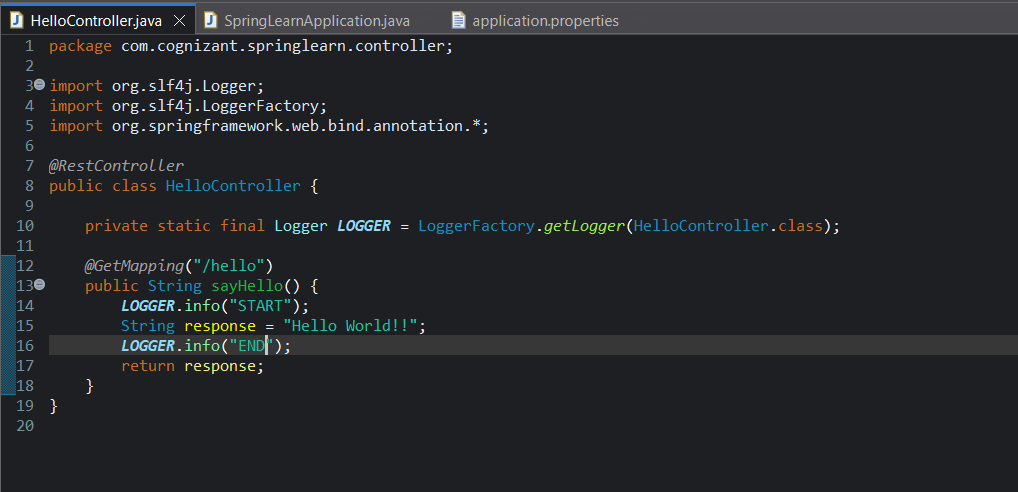
**4. Console showing debug logs:**



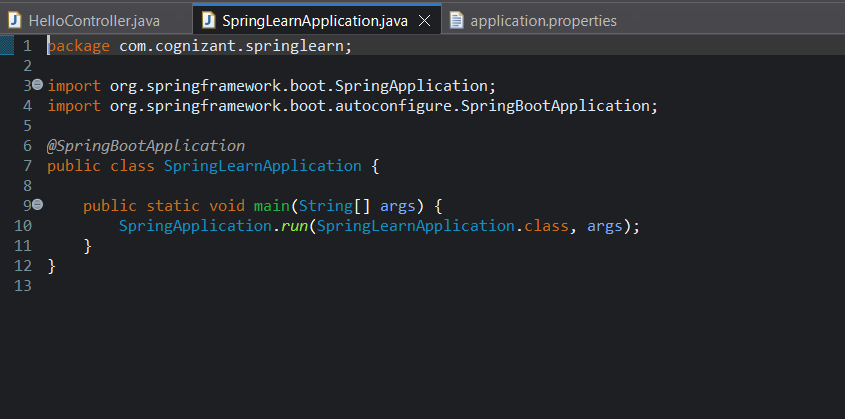
**2. Spring Rest HandsOn.docx**

**Hello World RESTful Web Service**   
  
Write a REST service in the spring learn application created earlier, that returns the text "Hello World!!" using Spring Web Framework. Refer details below:  
  
**Method:** GET  
**URL:** /hello  
**Controller:** com.cognizant.spring-learn.controller.HelloController  
**Method Signature:** public String sayHello()  
**Method Implementation:** return hard coded string "Hello World!!"  
**Sample Request**: http://localhost:8083/hello  
**Sample Response:** Hello World!!

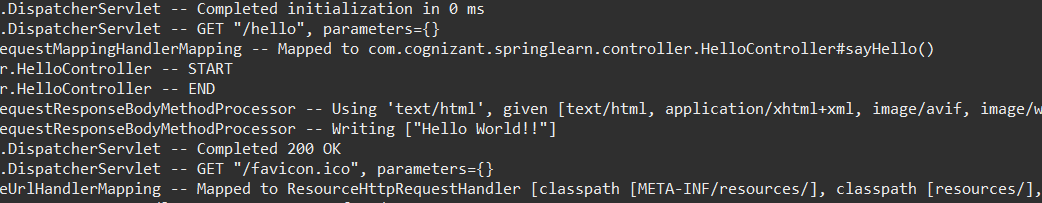
**1. HelloController.java Rest Controller:**



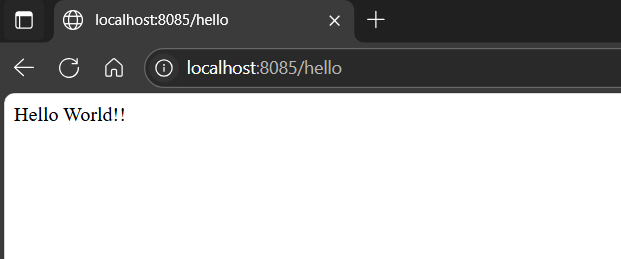
**2. Main() for running the application:**



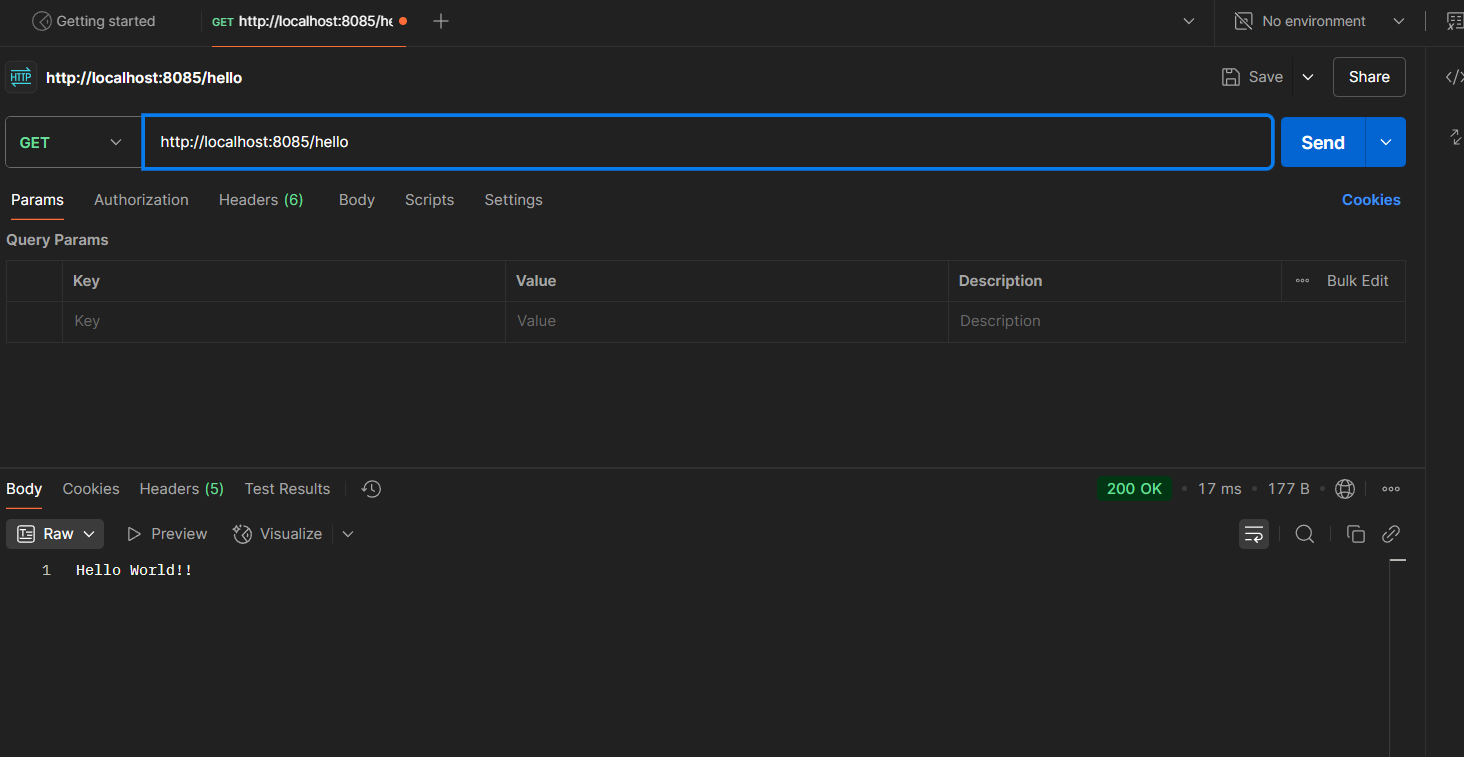
**3. Console:**



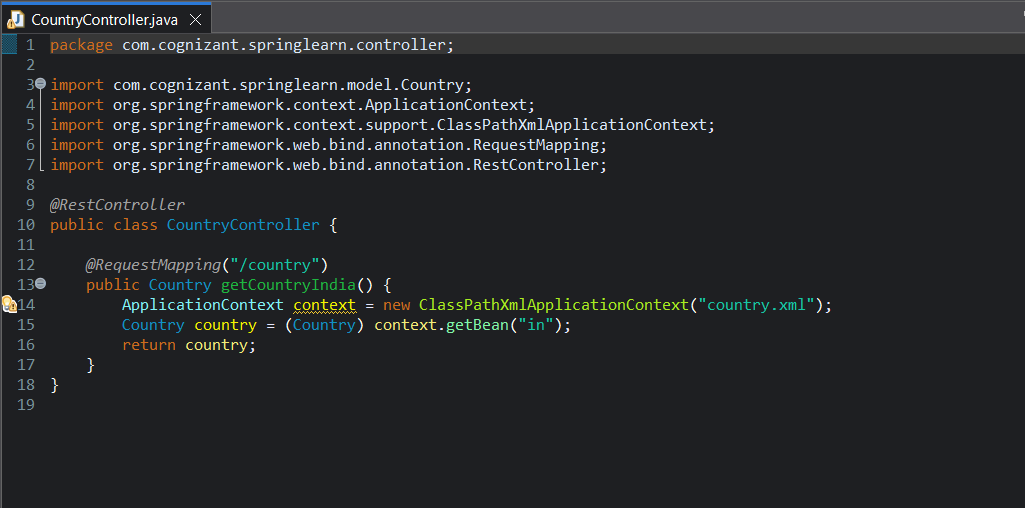
**4. Response through web browser:**



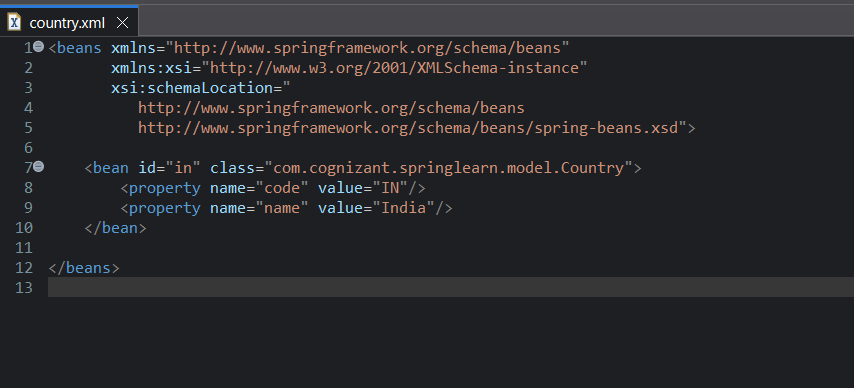
**5. Response through Postman:**



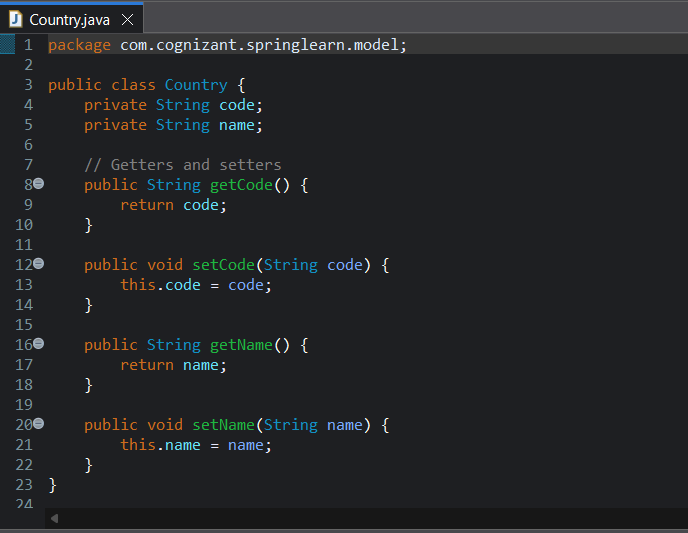
**REST - Country Web Service**   
  
Write a REST service that returns India country details in the earlier created spring learn application.

**1. CountryController.java handles REST API requests** 

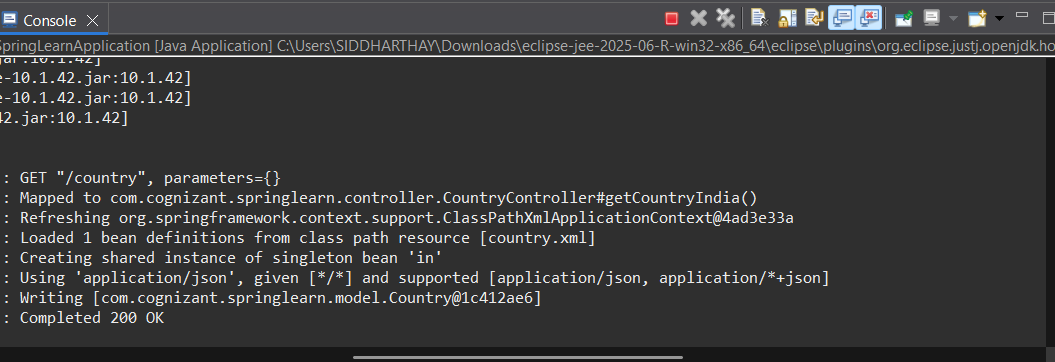
**2. country.xml configures country bean**



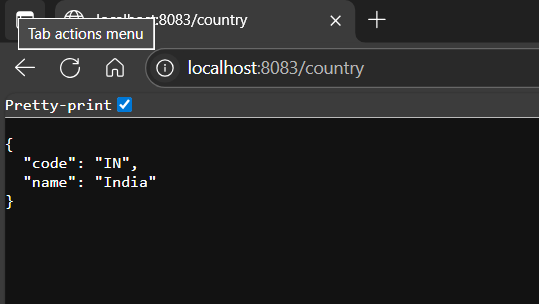
**3. Country.java model class contains getter and setter methods**



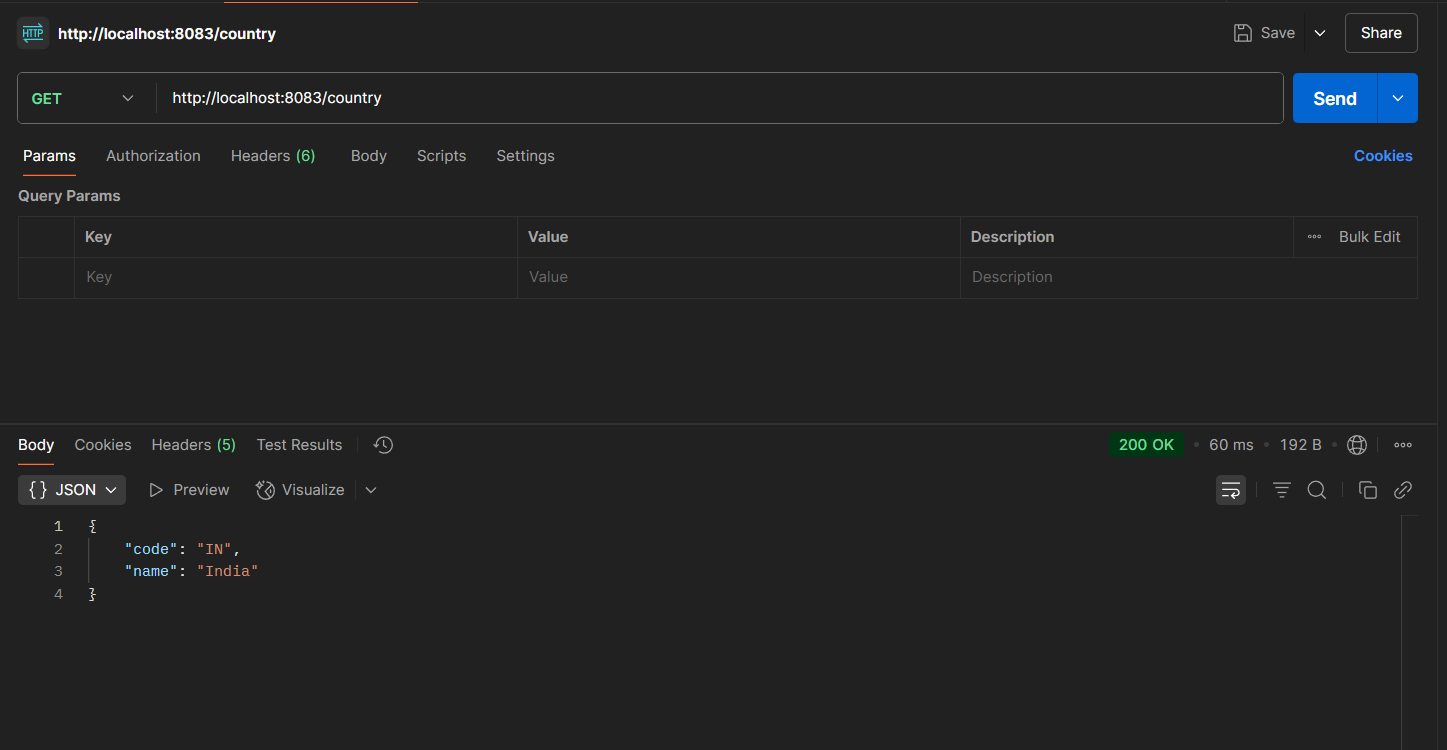
**4. Console output:**



**5. Response through web browser:**

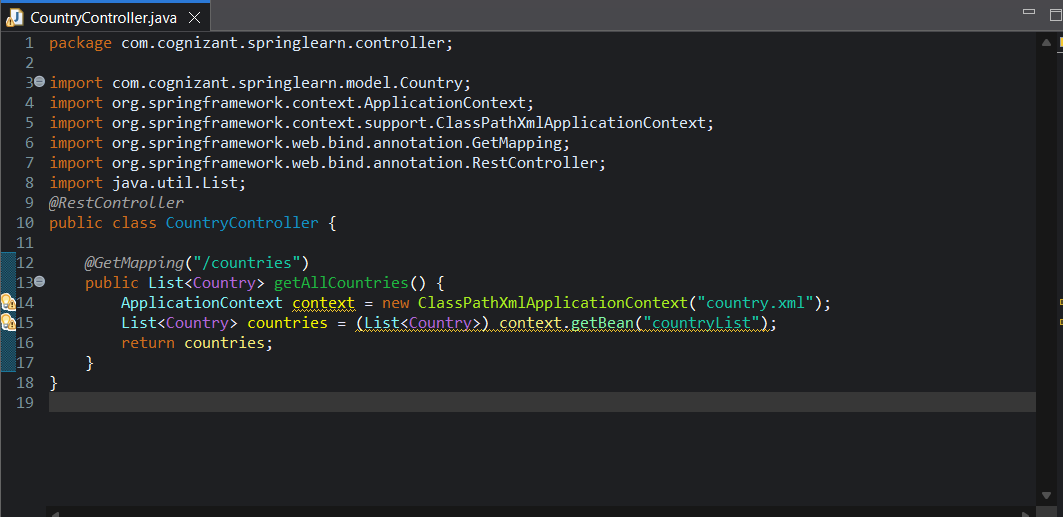


**6. Response through Postman:**

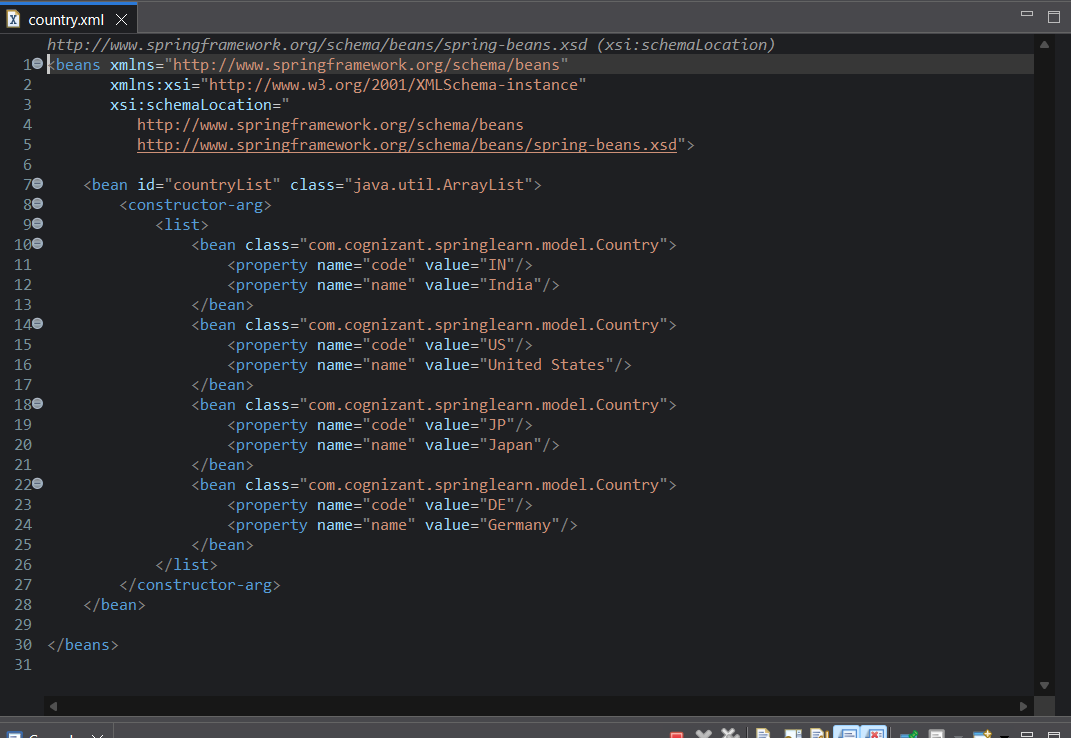


**REST - Get all countries**   
Write a REST service that returns all the countries.

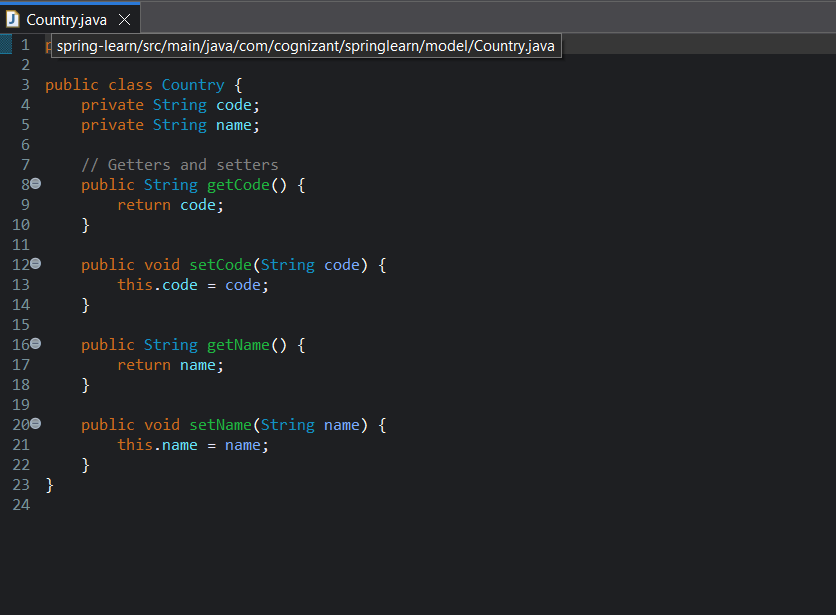
**1. CountryController.java to handles REST API requests:**



**2. country.xml configures all country bean**



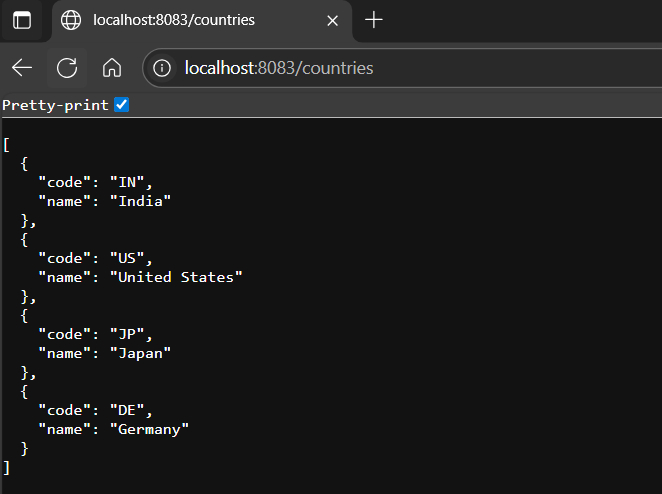
**3. Country.java model class contains getter and setter methods**



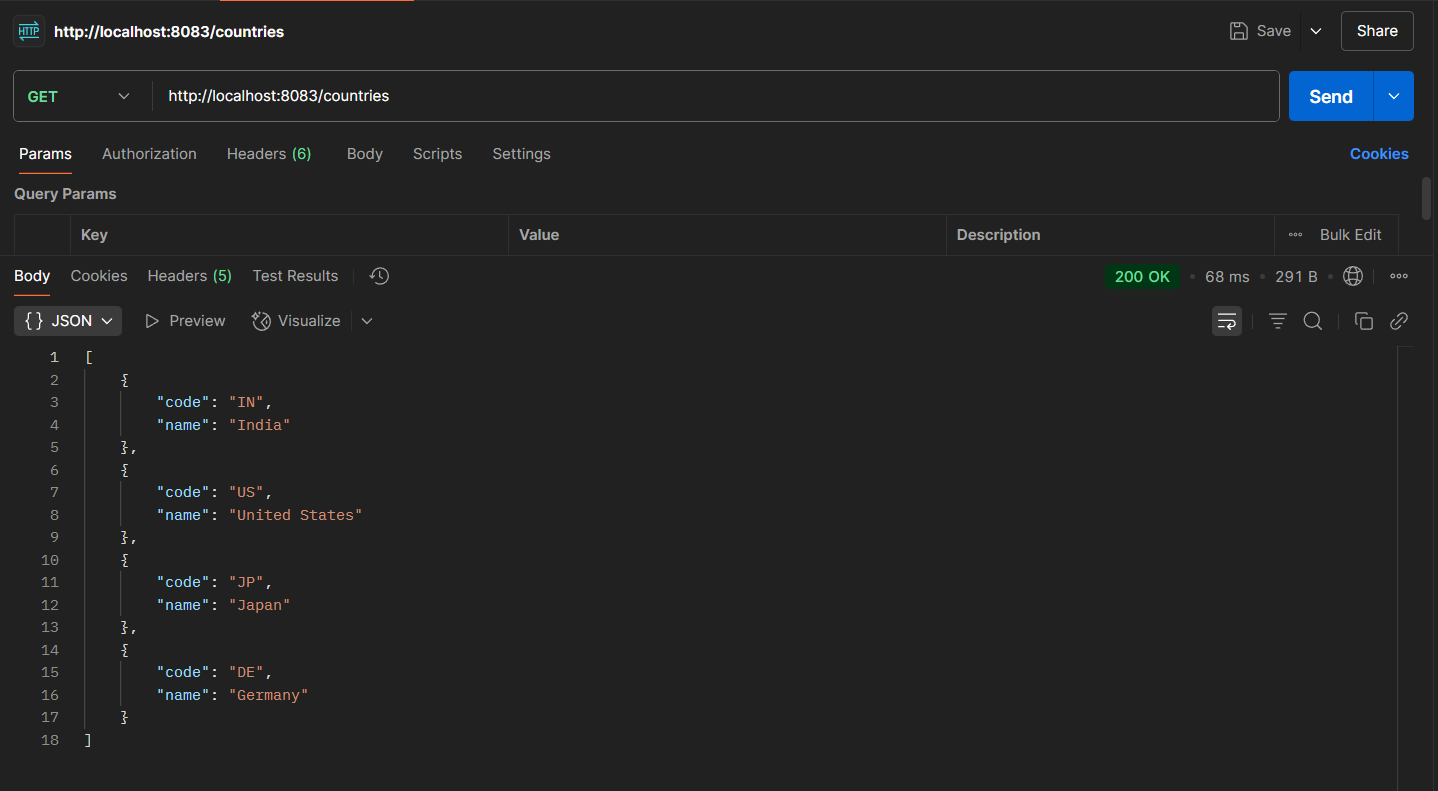
**4. Console Output:**



**5. Response through Web Browser:**

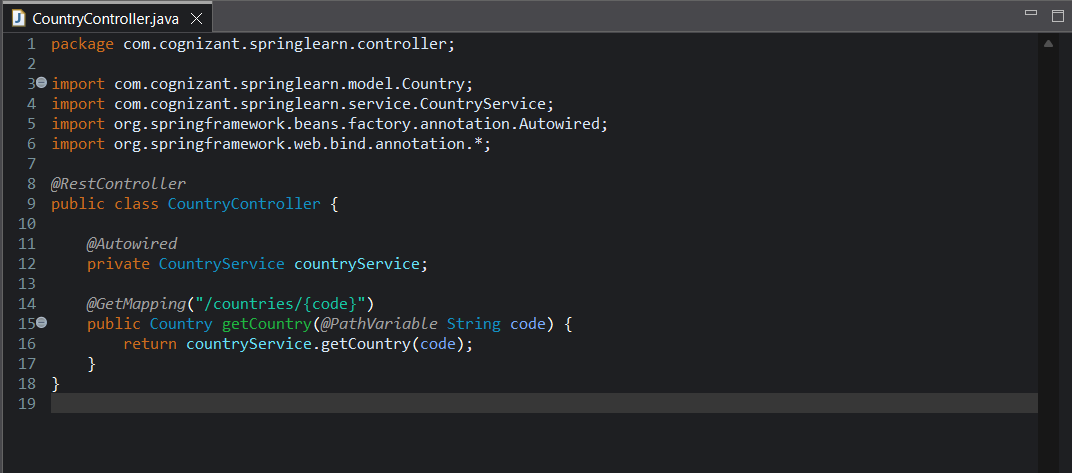


**5. Response through Postman:**

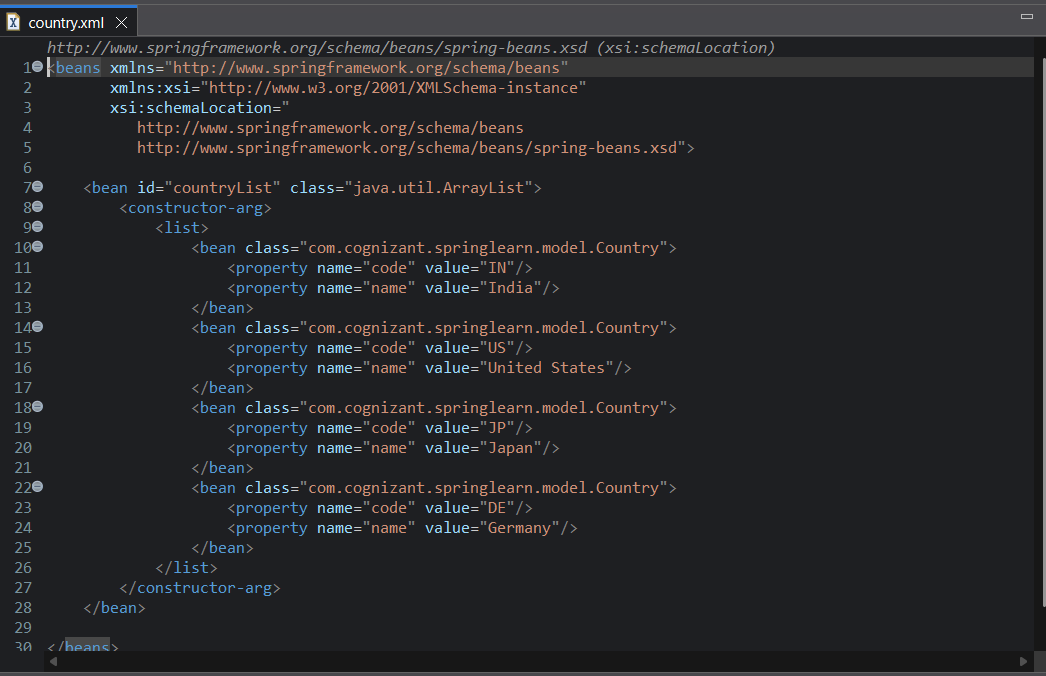


**REST - Get country based on country code**   
  
Write a REST service that returns a specific country based on country code. The country code should be case insensitive.

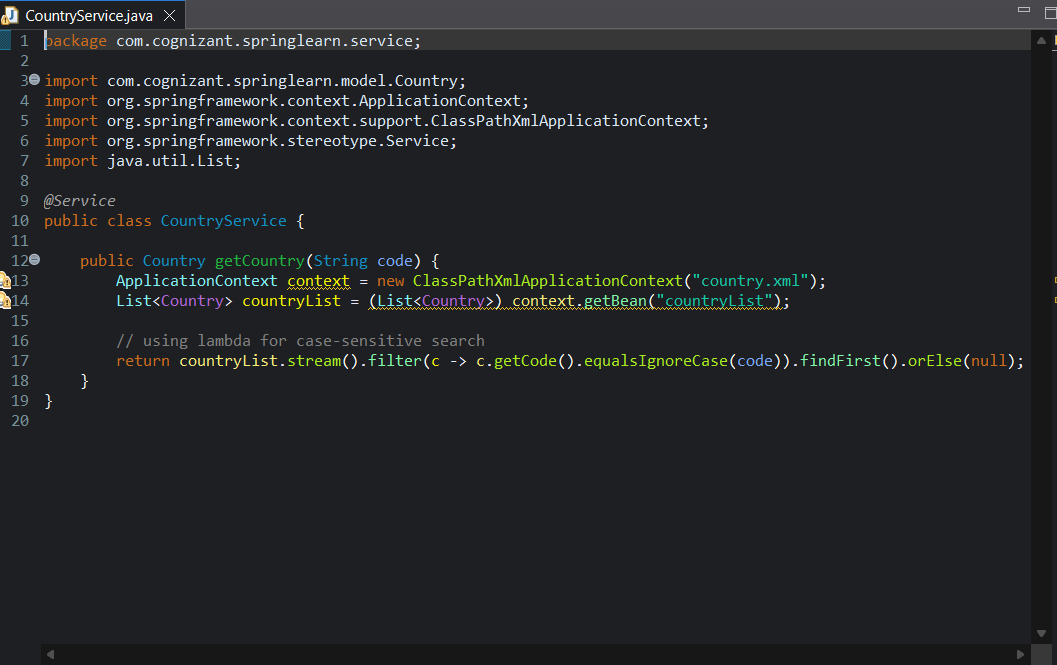
**1. CountryController.java to handles REST API requests:**



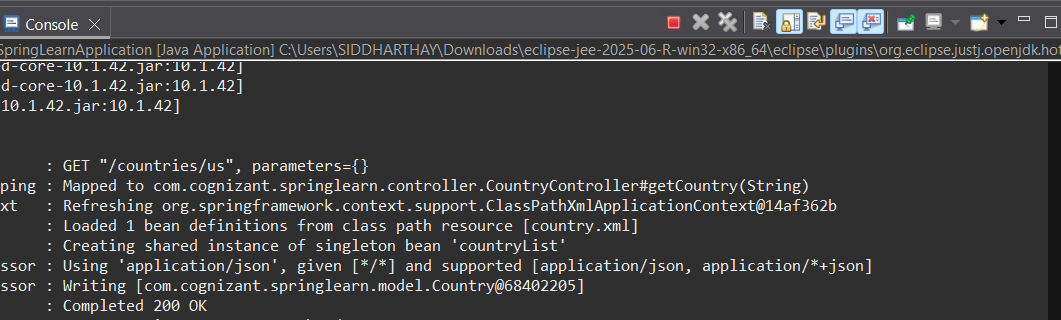
**2. country.xml configures all country bean**



**3. CountryService.java contains the business logic:**



**4. Console Output:**



**5. Responses through Web Browser and Postman:**

