Spring RESTful Web Services Summary

# 1. Hello World RESTful Web Service

- 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!!  
  
Note: Include start and end log in the sayHello() method.  
Try the URL in both Chrome browser and Postman.

# 2. REST - Country Web Service

- 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 it.  
- Sample Request: http://localhost:8083/country  
- Sample Response:  
{  
 "code": "IN",  
 "name": "India"  
}  
  
Explanation:  
- The controller returns a Country bean which Spring automatically converts to JSON.  
- HTTP headers can be viewed in the browser's Developer Tools or Postman's Headers tab.

# 3. REST - Get Country Based on Country Code

- URL: /countries/{code}  
- Controller: com.cognizant.spring-learn.controller.CountryController  
- Method Annotation: @GetMapping("/countries/{code}")  
- Method Name: getCountry(String code)  
- Implementation:  
 - Get the country code using @PathVariable  
 - Load country list from XML  
 - Return country based on case-insensitive match  
 - Optionally use lambda expression for search  
  
- Sample Request: http://localhost:8083/countries/in  
- Sample Response:  
{  
 "code": "IN",  
 "name": "India"  
}