WEEK 4 SOLUTONS

Spring REST using SpringBoot 3:

Hands on 1:

Controller.java

}

Create a Spring Web Project using Maven

```
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);
    }

}
```

```
package com.cognizant.spring_learn.controller;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;

@RestController
public class Controller {
    private static final Logger LOGGER = LoggerFactory.getLogger(Controller.class);
    @GetMapping("/hello")
    public String sayHello(){
        return "Hello, World!!";
```

application.properties

spring.application.name=spring-learn server.port=8083

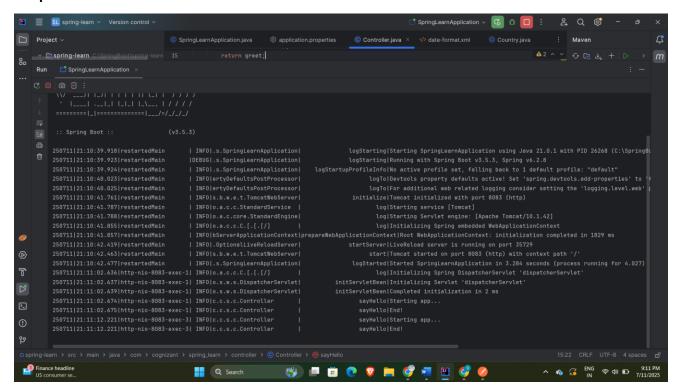
logging.level.org.springframework=info

logging.level.com.cognizant.springlearn=debug

logging.pattern.console=%d{yyMMdd}|%d{HH:mm:ss.SSS}|%-20.20thread|%5p|%-

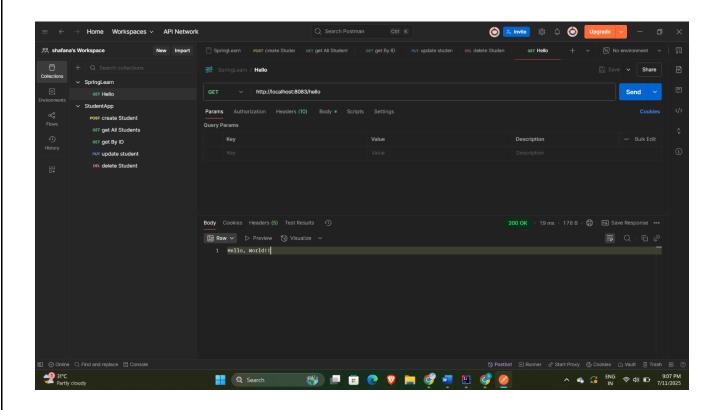
25.25logger{25}|%25M|%m%n

logging.level.com.cognizant.spring learn=DEBUG









Hands on 2

REST - Country Web Service

```
SpringLearnApplication.java:

// Shaik Shafana Shihaam
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.class
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.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
@RestController
public class CountryController {
  private static final Logger LOGGER = LoggerFactory.getLogger(CountryController.class);
  @RequestMapping(value="/country", method = RequestMethod.GET)
  public Country getCountryIndia(){
    LOGGER.info("Starting getCountryIndia");
    ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");
```

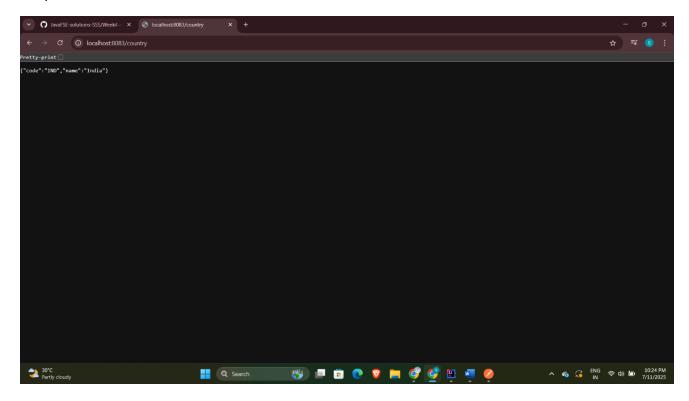
```
Country country = context.getBean("in",Country.class);

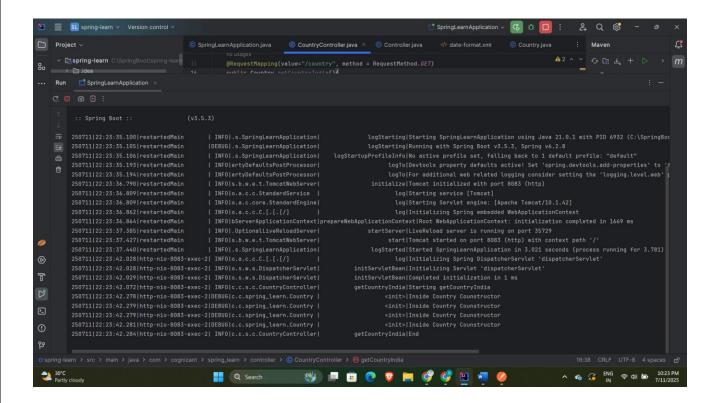
LOGGER.info("End");

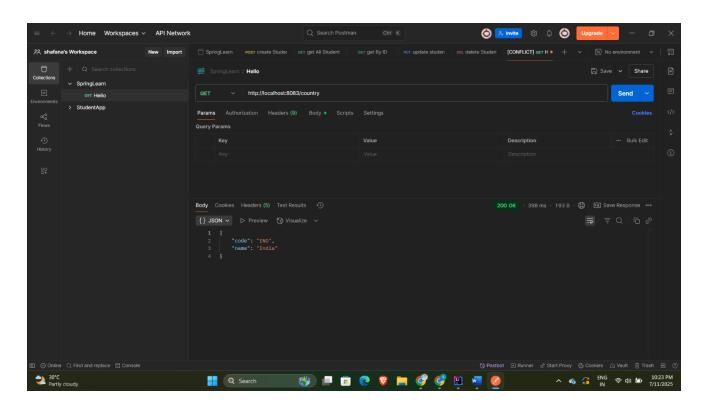
return country;

}

}
```







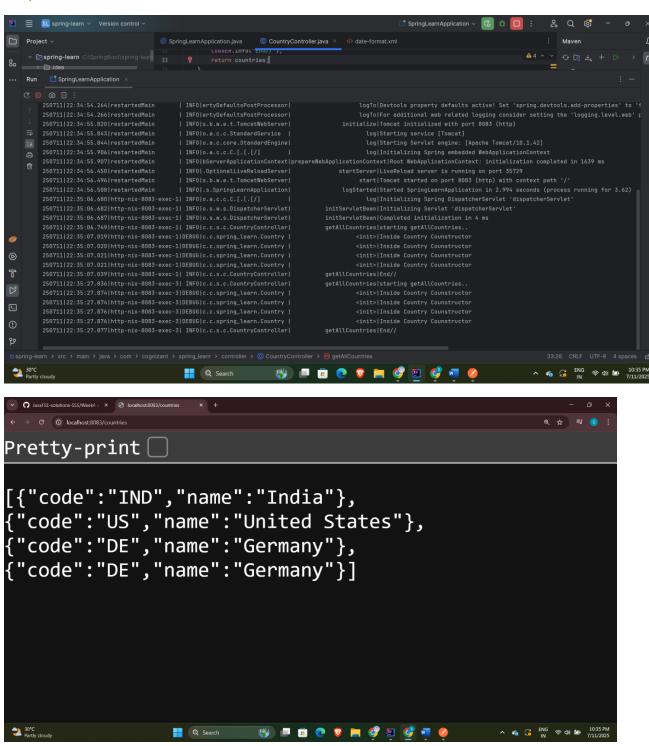
Hands on 3

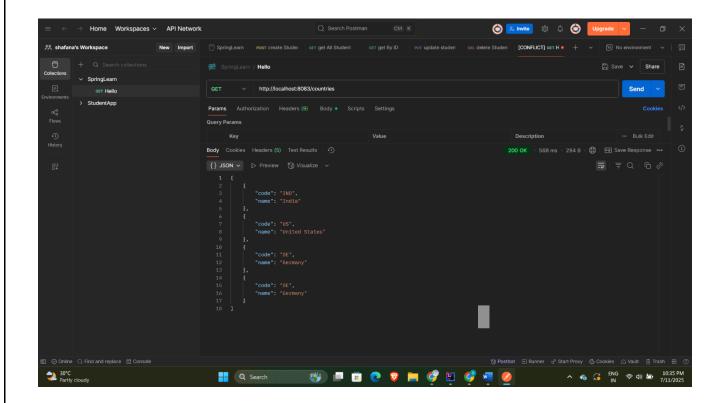
REST - Get all countries

CountryController.java

```
// Shaik Shafana Shihaam
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.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
import java.util.List;
@RestController
public class CountryController {
  private static final Logger LOGGER = LoggerFactory.qetLogqer(CountryController.class);
  @RequestMapping(value="/country", method = RequestMethod.GET)
  public Country getCountryIndia(){
    LOGGER.info("Starting getCountryIndia");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
    Country country = context.getBean("in",Country.class);
    LOGGER.info("End");
    return country;
  }
  @GetMapping("/countries")
  public List<Country> getAllCountries(){
    LOGGER.info("starting getAllCountries..");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
    List<Country> countries = context.getBean("countryList",List.class);
```

```
LOGGER.info("End//");
  return countries;
}
}
```





Hands on 4

REST - Get country based on country code

```
CountryController.class:
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.*;
import java.util.List;
@RestController
public class CountryController {
  private static final Logger LOGGER = LoggerFactory.getLogger(CountryController.class);
  @RequestMapping(value="/country", method = RequestMethod.GET)
  public Country getCountryIndia(){
    LOGGER.info("Starting getCountryIndia");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
    Country country = context.getBean("in",Country.class);
    LOGGER.info("End");
    return country;
  }
  @GetMapping("/countries/{code}")
  public Country getCountry(@PathVariable String code){
    LOGGER.info("Starting getCountry by specific code");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
    Country country = context.getBean(code,Country.class);
    LOGGER.info("End//");
    return country;
  @GetMapping("/countries")
```

```
public List<Country> getAllCountries(){
    LOGGER.info("starting getAllCountries..");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
    List<Country> countries = context.getBean("countryList",List.class);
    LOGGER.info("End//");
    return countries;
}
```

