**Week 4**

**1. Spring REST hands on**

**Hands on 1**

**Create a Spring Web Project using Maven**

**Code:**

package com.cognizant.spring\_learn;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

@SpringBootApplication

public class SpringLearnApplication {

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

public static void main(String[] args) {

*LOGGER*.info("STARTING THE SPRING LEARN APPLICATION");

SpringApplication.*run*(SpringLearnApplication.class, args);

*LOGGER*.info("SPRIN LEARN APPLICATION RUN SUCCESSFULLY");

}

}

**Output:**



**Hands on 4**

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

**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>

**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");

}

public String getCode() {

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

return code;

}

public void setCode(String code) {

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

this.code = code;

}

public String getName() {

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

return name;

}

public void setName(String name) {

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

this.name = name;

}

public String toString() {

return "Country [Code: "+ code + ", Name: " + name + "]";

}

}

**SpringLearnApplication.java**

package com.cognizant.spring\_learn;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

@SpringBootApplication

public class SpringLearnApplication {

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

public static void main(String[] args) {

SpringApplication.*run*(SpringLearnApplication.class, args);

*displayCountry*();

}

public static void displayCountry() {

*LOGGER*.info("Start");

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

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

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

*LOGGER*.info("End");

}

}

**Output:**

