# Week 4 - Mandatory assignments

## Create a Spring Web Project using Maven

**Step 1:** create a maven project using spring initializer with group as com.cognizan , and artifact as sring-learn . also add dependencies like spring boot tool and spring web.

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**Step 2:** download the zip file, extract it to eclipse workspace

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**Step 3:** open maven project in eclipse , using file🡪open projects from file system , specify your spring learn directory

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**Step 4:** check if correctly imported and has all the necessary files like main, test and pm.xml.

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**Step 5:** run the SpringLearnApplication

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**Output:**

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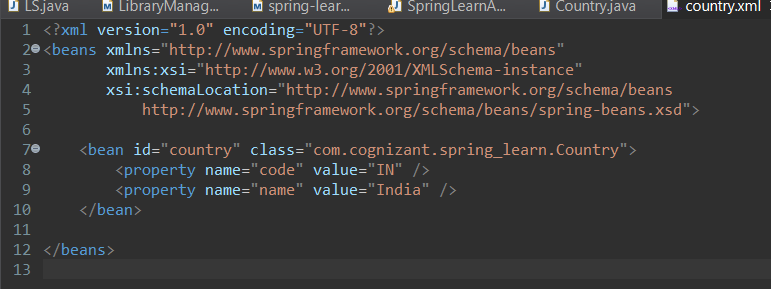
## Spring Core – Load Country from Spring Configuration XML

**Step 1:** create a country class where we represent each country

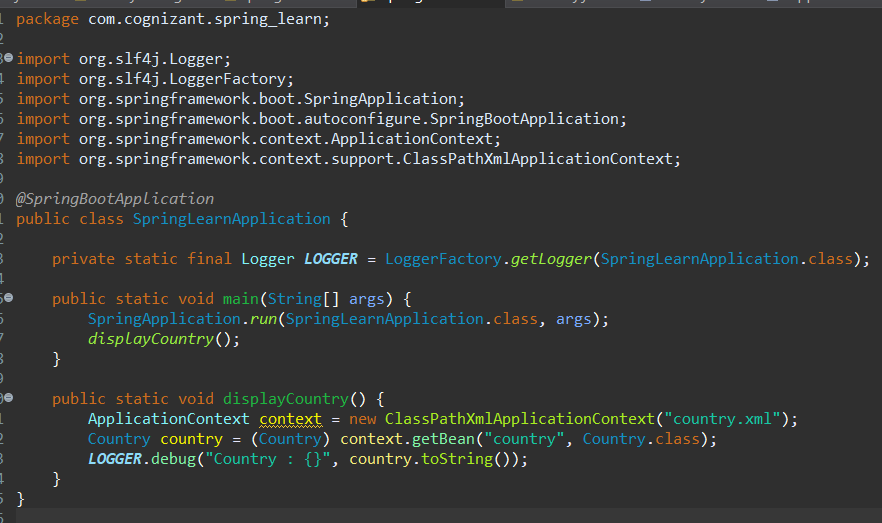
A screen shot of a computer program

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**Step 2:** create a xml where you define how each country object is created and what value it has



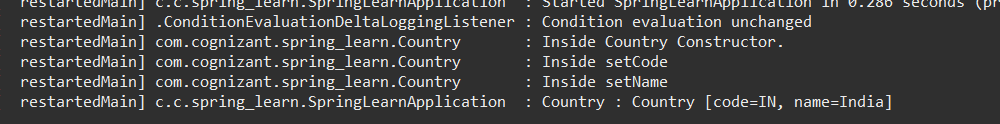
**Step 3:** we run the springbootapplication which starts our spring boot application , that will load the bean from our xml file



We have created a method display country, that reads my xml file , then creates an object and assigns in to india using setters. That logger.debug prints the op.

**Step 4:** in application.properties, we include **logging.level.com.cognizant.spring\_learn=**DEBUG , which sets the logic level to debug that allows us to see all the getters setters and constructors.

**Output:**



## Hello World RESTful Web Service

**Step 1:** create a package for controller, and create a controller class (HelloController) where we define what should happen when anyone visits the url /hello.

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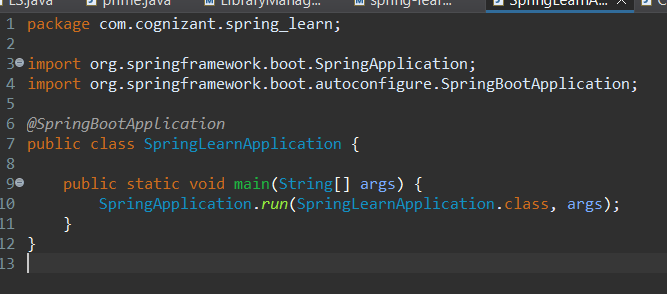
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**Step 2:** set up the port in which application has to run in application.properties

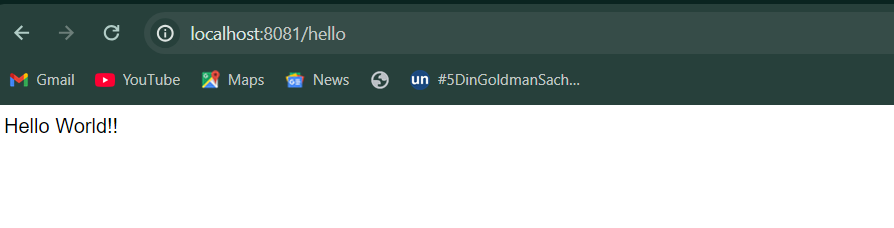
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**Step 3:** run spring boot application that sets up tomcat which loads all configuration and makes rest API available



**Output:**



## REST - Country Web Service

**Step 1:** initialize a country with help of getters, setters and constructors through country class

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**Step 2:** define country india with its code using the getters , setters and constructors defined by country class in country.xml file through bean.

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**Step 3:** create CountryController class in controller package that is responsible for handling the request sent to /country as on anybody opens the url. It loads the data from country.xml and returns the data as json response.

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**Output :**

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## REST - Get all countries

**Step 1:** update country.xml to define all countries

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**Step 2:** update CountryController to handle get requests to countries

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**Output:**

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