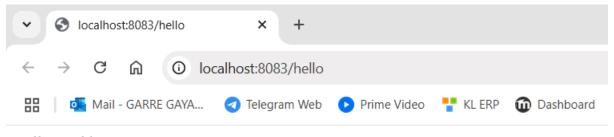
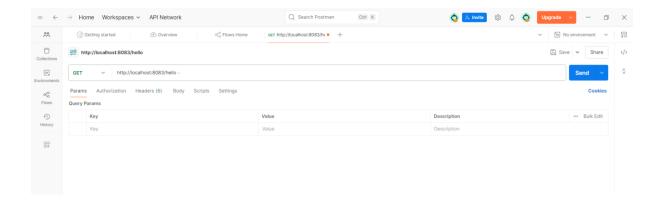
Hello World RESTful Web Service

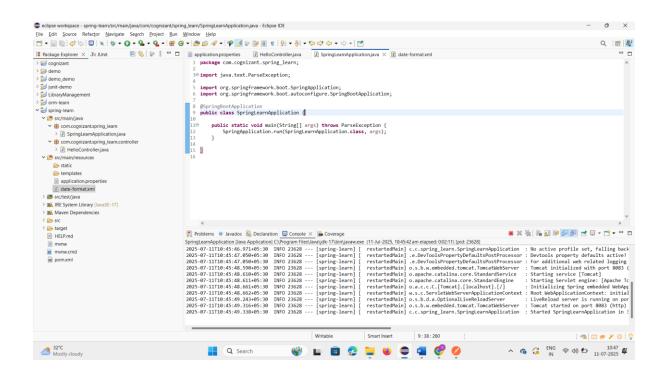
```
SpringLearnApplication.java:
package com.cognizant.spring_learn;
import java.text.ParseException;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class SpringLearnApplication {
    public static void main(String[] args) throws ParseException {
        SpringApplication.run(SpringLearnApplication.class, args);
    }
}
```

OUTPUTS:



Hello World!!





REST - Country Web Service

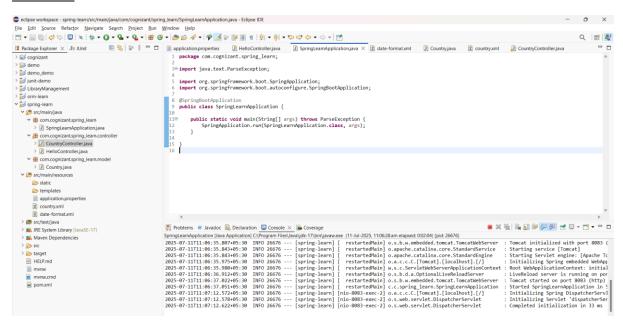
Country.java

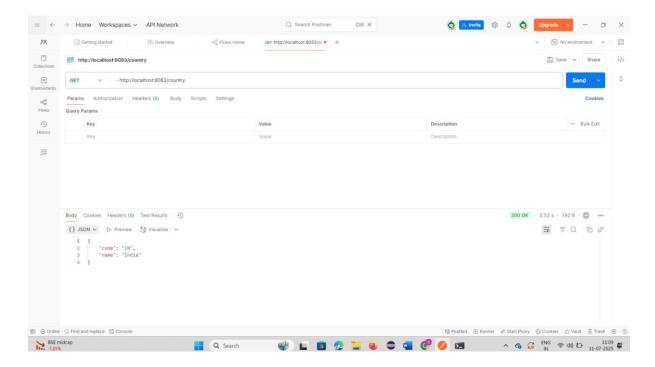
```
package com.cognizant.spring_learn.model;
public class Country {
  private String code;
  private String name;
  public Country() {}
  public Country(String code, String name) {
    this.code = code;
    this.name = name;
  }
  public String getCode() {
    return code;
  }
  public void setCode(String code) {
    this.code = code;
  public String getName() {
    return name;
  public void setName(String name) {
    this.name = name;
  }
}
Country.xml:
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation="
```

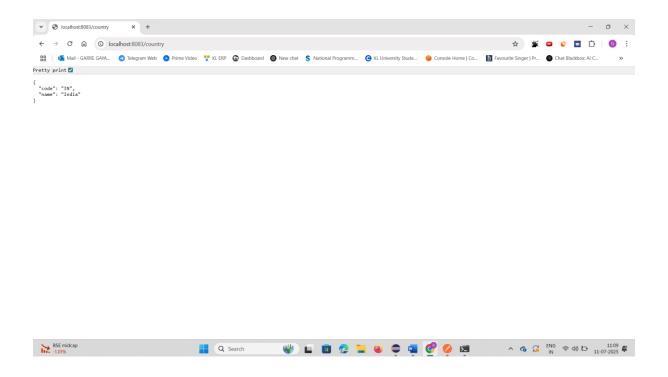
```
http://www.springframework.org/schema/beans
     http://www.springframework.org/schema/beans/spring-beans.xsd">
  <bean id="in" class="com.cognizant.spring_learn.model.Country">
    code" value="IN" />
    cproperty name="name" value="India" />
  </bean>
</beans>
CountryController:
package com.cognizant.spring_learn.controller;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import com.cognizant.spring_learn.model.Country;
@RestController
public class CountryController {
  @RequestMapping("/country")
  public Country getCountryIndia() {
    ApplicationContext <u>context</u> = new ClassPathXmlApplicationContext("country.xml");
    Country country = (Country) context.getBean("in");
    return country;
  }
```

}

OUTPUTS:







REST - Get country based on country code

```
Country.xml:
```

```
<?xml version="1.0" encoding="UTF-8"?>
<countries>
  <country>
    <code>IN</code>
    <name>India</name>
  </country>
  <country>
    <code>US</code>
    <name>United States</name>
  </country>
  <country>
    <code>CN</code>
    <name>China</name>
  </country>
</countries>
Country.java:
package com.cognizant.spring_learn.model;
import jakarta.xml.bind.annotation.XmlElement;
import jakarta.xml.bind.annotation.XmlRootElement;
@XmlRootElement(name = "country")
public class Country {
  private String code;
  private String name;
  @XmlElement
  public String getCode() {
    return code;
  }
```

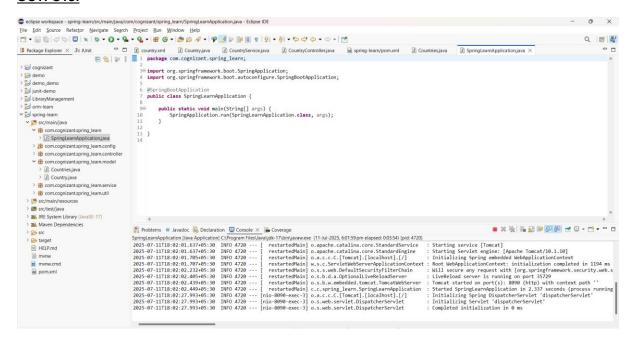
```
public void setCode(String code) {
    this.code = code;
  }
  @XmlElement
  public String getName() {
    return name;
  }
  public void setName(String name) {
    this.name = name;
  }
}
CountryService.java:
package com.cognizant.spring_learn.service;
import com.cognizant.spring_learn.model.Country;
import com.cognizant.spring_learn.model.Countries;
import org.springframework.core.io.ClassPathResource;
import org.springframework.oxm.jaxb.Jaxb2Marshaller;
import org.springframework.stereotype.Service;
import javax.xml.transform.stream.StreamSource;
import java.util.List;
@Service
public class CountryService {
  private List<Country> countryList;
  public CountryService() {
    loadCountriesFromXml();
  private void loadCountriesFromXml() {
    try {
      Jaxb2Marshaller marshaller = new Jaxb2Marshaller();
```

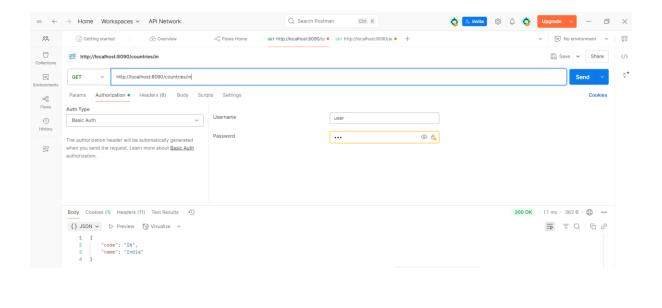
```
marshaller.setClassesToBeBound(Countries.class, Country.class);
      Countries = (Countries) marshaller.unmarshal(
          new StreamSource(new ClassPathResource("country.xml").getInputStream()));
      this.countryList = countries.getCountry();
    } catch (Exception e) {
      e.printStackTrace();
    }
  }
  public Country getCountry(String code) {
    return countryList.stream()
        .filter(c -> c.getCode().equalsIgnoreCase(code))
        .findFirst()
        .orElse(null);
  }
}
CountryController.java:
package com.cognizant.spring_learn.controller;
import com.cognizant.spring_learn.model.Country;
import com.cognizant.spring_learn.service.CountryService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
@RestController
public class CountryController {
  @Autowired
  private CountryService countryService;
  @GetMapping("/countries/{code}")
  public Country getCountry(@PathVariable String code) {
    return countryService.getCountry(code);
  }
}
```

Countries.java:

```
package com.cognizant.spring_learn.model;
import jakarta.xml.bind.annotation.XmlElement;
import jakarta.xml.bind.annotation.XmlRootElement;
import java.util.List;
@XmlRootElement(name = "countries")
public class Countries {
    private List<Country> country;
    @XmlElement(name = "country")
    public List<Country> getCountry() {
        return country;
    }
    public void setCountry(List<Country> country) {
        this.country = country;
    }
}
```

OUTPUTS:





- ø ×

☆ ⑥ :



v<country>
 <code>IN</code>
 <name>India</name>
</country>

✓ ③ localhost:8090/countries/in × +

