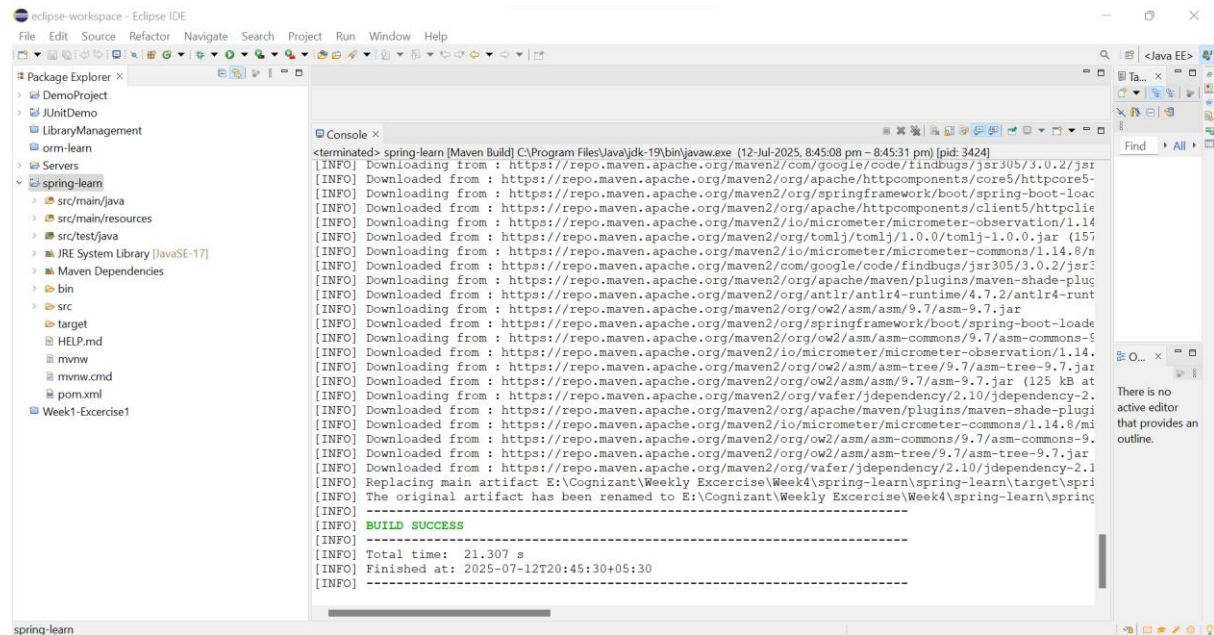


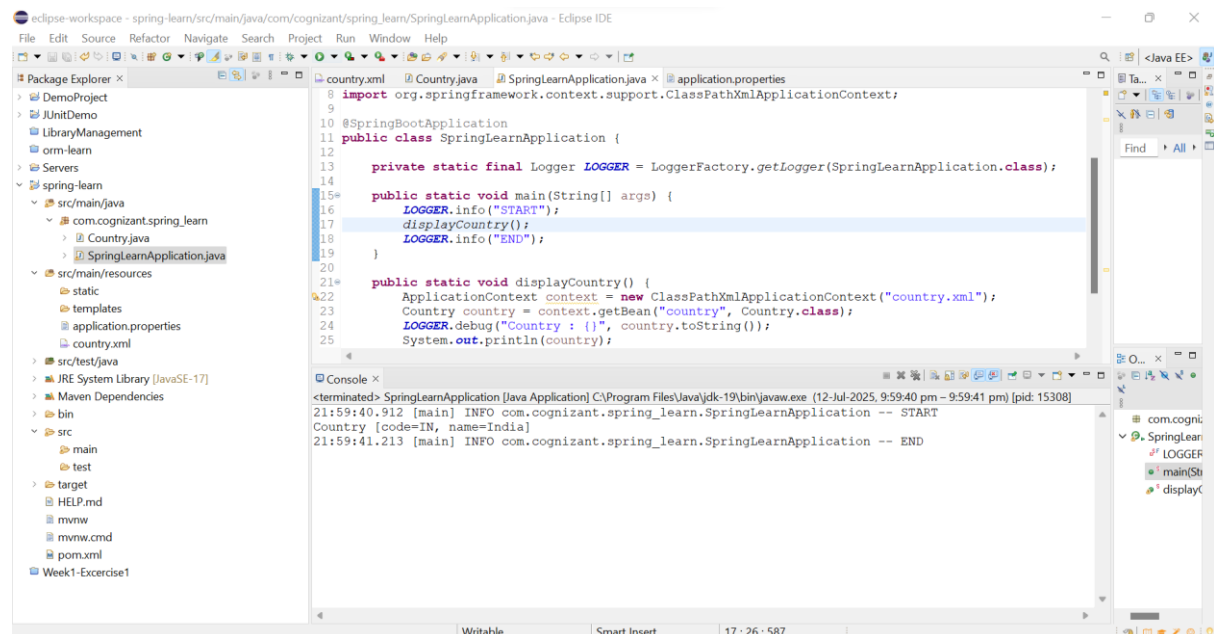
WEEK 4 EXERCISE

1.Create a Spring Web Project Using Maven

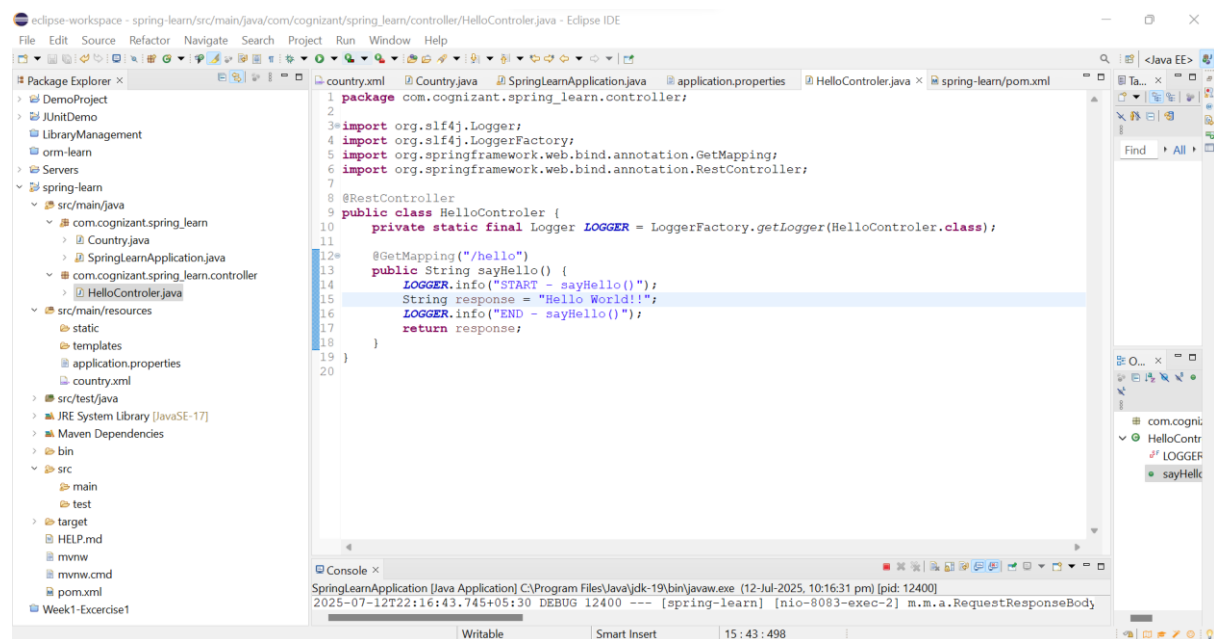
Output:



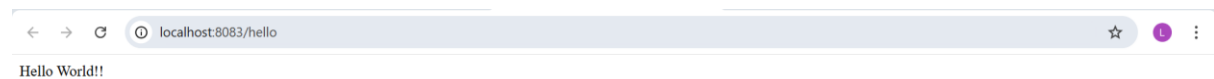
2.Spring Core – Load Country from Spring Configuration XML



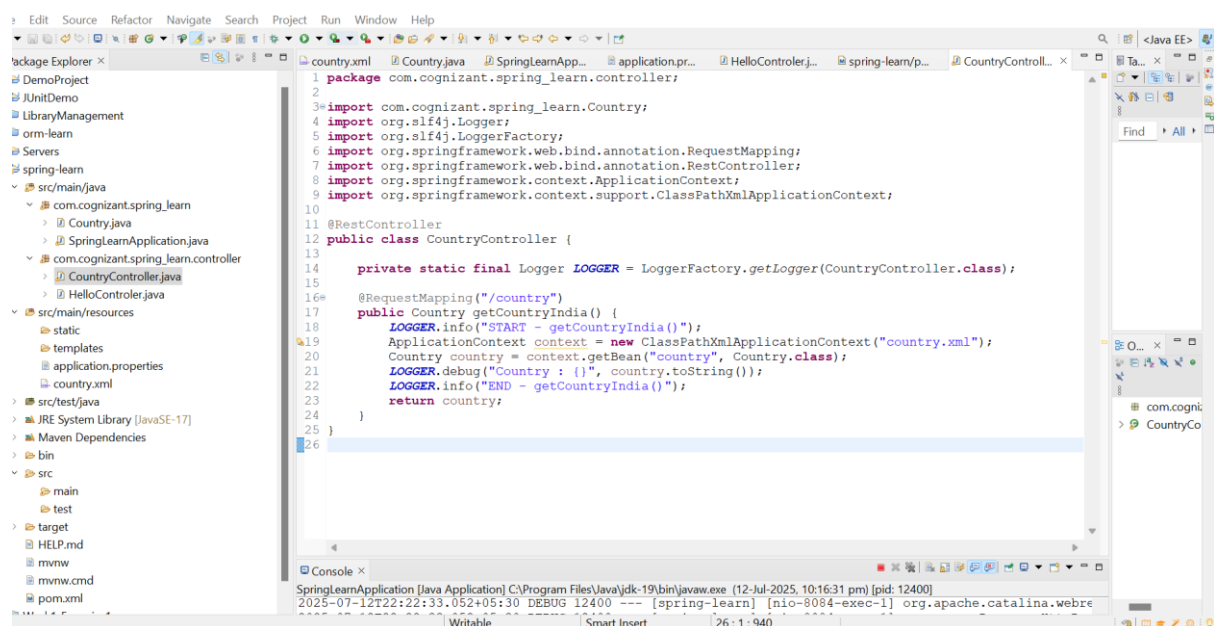
3. HelloWorld RESTful Web Service



Output:



4. REST - Country Web Service

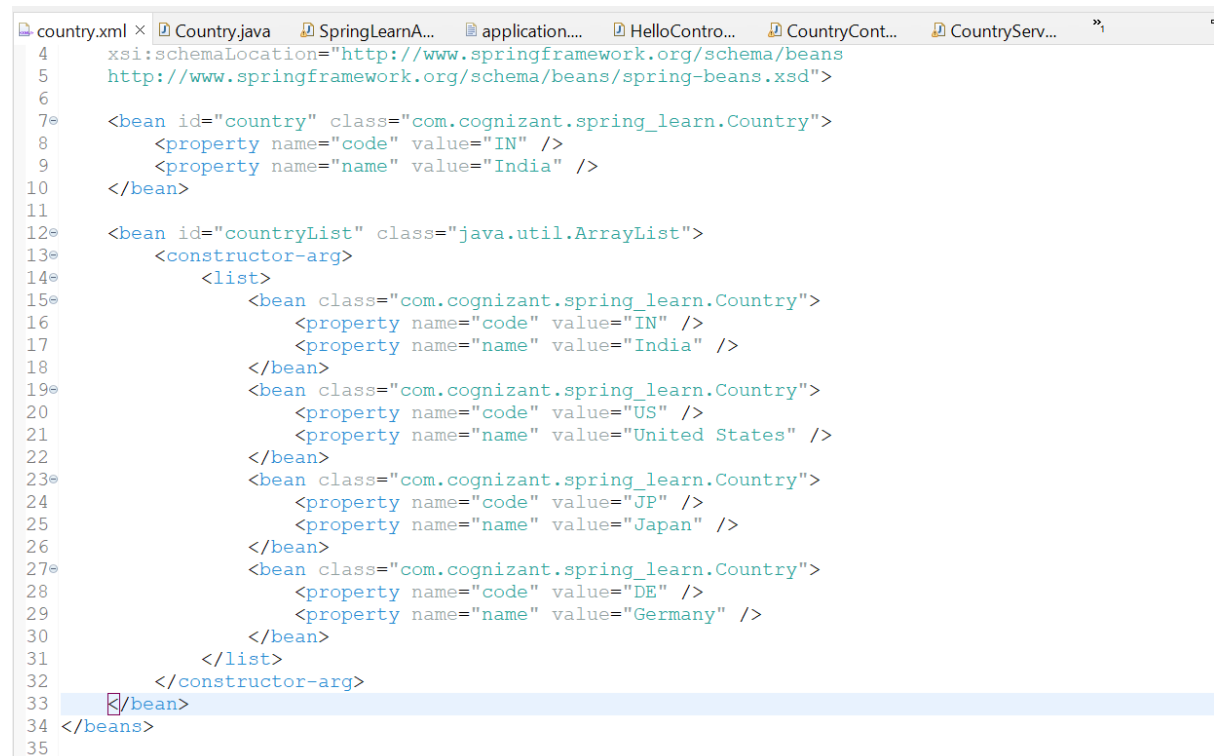


Output:



```
{
  "code": "IN",
  "name": "India"
}
```

5. REST - Get Country Based On Country Code



```
country.xml x Country.java SpringLearnA... application... HelloContro... CountryCont... CountryServ...
4   xsi:schemaLocation="http://www.springframework.org/schema/beans
5   http://www.springframework.org/schema/beans/spring-beans.xsd">
6
7   <bean id="country" class="com.cognizant.spring_learn.Country">
8     <property name="code" value="IN" />
9     <property name="name" value="India" />
10  </bean>
11
12  <bean id="countryList" class="java.util.ArrayList">
13    <constructor-arg>
14      <list>
15        <bean class="com.cognizant.spring_learn.Country">
16          <property name="code" value="IN" />
17          <property name="name" value="India" />
18        </bean>
19        <bean class="com.cognizant.spring_learn.Country">
20          <property name="code" value="US" />
21          <property name="name" value="United States" />
22        </bean>
23        <bean class="com.cognizant.spring_learn.Country">
24          <property name="code" value="JP" />
25          <property name="name" value="Japan" />
26        </bean>
27        <bean class="com.cognizant.spring_learn.Country">
28          <property name="code" value="DE" />
29          <property name="name" value="Germany" />
30        </bean>
31      </list>
32    </constructor-arg>
33  </bean>
34 </beans>
35
```

```

6 import org.springframework.web.bind.annotation.GetMapping;
7 import org.springframework.web.bind.annotation.PathVariable;
8 import org.springframework.web.bind.annotation.RequestMapping;
9 import org.springframework.web.bind.annotation.RestController;
10 import org.springframework.beans.factory.annotation.Autowired;
11 import org.springframework.context.ApplicationContext;
12 import org.springframework.context.support.ClassPathXmlApplicationContext;
13 import com.cognizant.spring_learn.service.CountryService;
14
15 @RestController
16 public class CountryController {
17
18     private static final Logger LOGGER = LoggerFactory.getLogger(CountryController.class);
19     @Autowired
20     private CountryService countryService;
21
22     @RequestMapping("/country")
23     public Country getCountryIndia() {
24         LOGGER.info("START - getCountryIndia()");
25         ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");
26         Country country = context.getBean("country", Country.class);
27         LOGGER.debug("Country : {}", country.toString());
28         LOGGER.info("END - getCountryIndia()");
29         return country;
30     }
31
32     @GetMapping("/countries/{code}")
33     public Country getCountry(@PathVariable String code) {
34         return countryService.getCountry(code);
35     }
36 }
37

```

Output:



localhost:8083/countries/jp

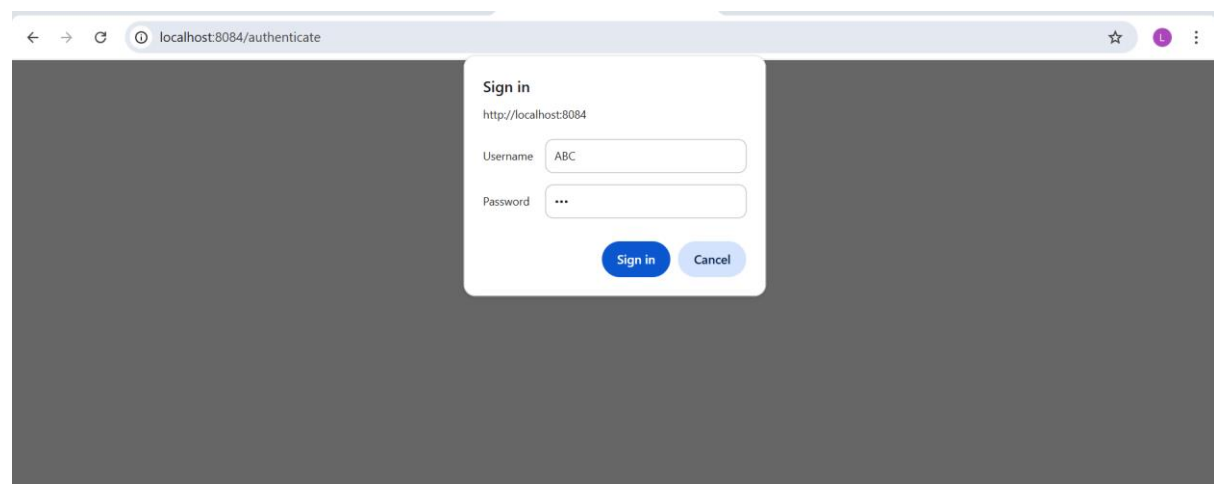
Pretty-print ☒

```

{
  "code": "JP",
  "name": "Japan"
}

```

6. Create Authentication Service That Returns JWT



localhost:8084/authenticate

Sign in

http://localhost:8084

Username

Password