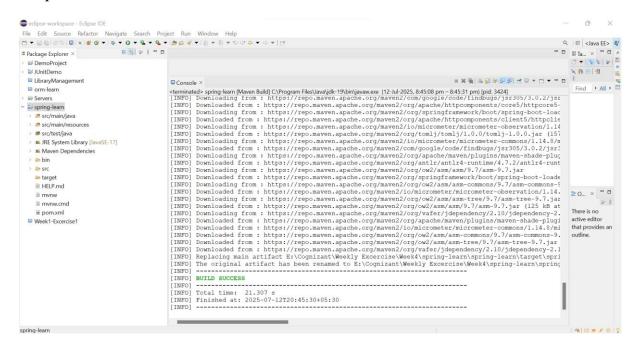
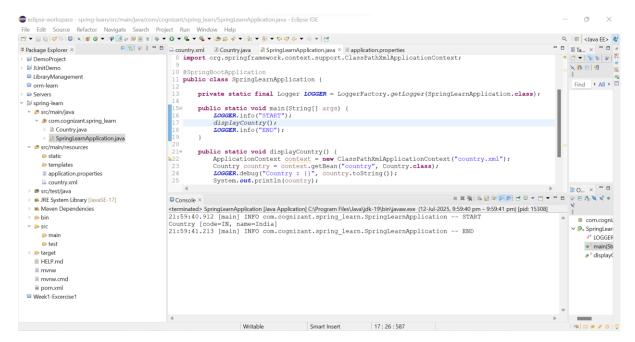
WEEK 4 EXERCISE

1. Create a Spring Web Project Using Maven

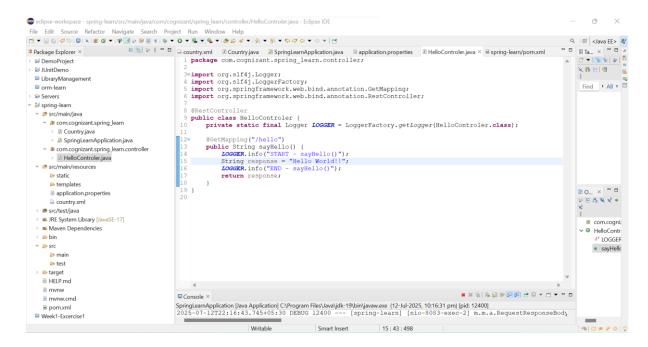
Output:



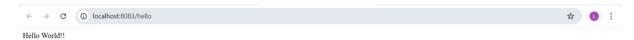
2.Spring Core – Load Country from Spring Configuration XML



3. HelloWorld RESTful Web Service



Output:



4. REST - Country Web Service

```
e Edit Source Refactor Navigate Search Project Run Window Help
ackage Explorer × □ % □ % □ □ □ country.xml ② Country.java ② SpringLearnApp... □ application.pr... ② HelloControler.j. □ spring-learn/p... ② CountryControll... × □ □ 1a... x □ □ 1 package com. cognizant.spring learn.controller.
                                                                   30 import com.cognizant.spring learn.Country;
LibraryManagement
                                                                    import com.cognizant.spring learn.country;
import org.slf4j.LoggerFactory;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.context.ApplicationContext;
import org.springframework.context.springframework.applicationContext;
                                                                                                                                                                                                                                                 Find All

    Servers

> # com.cognizant.spring learn

        11 @RestController
12 public class CountryController {

→ 
B com.cognizant.spring_learn.controller
→ 
D CountryController.java

                                                                           private static final Logger LOGGER = LoggerFactory.getLogger(CountryController.class);
                                                                           @RequestMapping("/country")
public Country getCountryIndia() {
   LOGGER.info("START - getCountryIndia()");
   ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");
   Country country = context.getBean("country", Country.class);
   LOGGER.debug("Country : ()", country.toString());
   LOGGER.info("END - getCountryIndia()");
         HelloControler.java

src/main/resources

      templates
                                                                                                                                                                                                                                                 > E 1½ X X * •
       application.properties
      country.xml
> src/test/java
> 🛋 JRE System Library [JavaSE-17]
                                                                                  return country:
                                                                                                                                                                                                                                                      # com.cogni;
                                                                                                                                                                                                                                                  > 9 CountryCo
Maven Dependencies
> 🗁 bin

y 
≥ src

     a main
> 🗁 target
  HELP.md
   mvnw
                                                                                                                                                                                              □ Console ×
   mvnw.cmd

        SpringLearnApplication [Java Application] C\Program Files\Java\Jdk-19\bin\Javaw.exe (12-Jul-2025, 10:16:31 pm) [pid: 12400]

        2025-07-12T22:22:33.052+05:30 DEBUG 12400 --- [spring-learn] [nio-8084-exec-1] org.apache.catalina.webre

        Writable
        Smart Insert
        26:1:940
```

Output:

5. REST - Get Country Based On Country Code

```
Country.xml × Country.java SpringLearnA... application... HelloContro... CountryCont... xsi:schemaLocation="http://www.springframework.org/schema/beans"
                                                              CountryServ...
 5
      http://www.springframework.org/schema/beans/spring-beans.xsd">
      7⊝
 9
10
     </bean>
11
12⊖
     <bean id="countryList" class="java.util.ArrayList">
13⊜
         <constructor-arg>
149
            st>
               <bean class="com.cognizant.spring_learn.Country">
15⊝
                  16
17
18
               </bean>
199
                <bean class="com.cognizant.spring_learn.Country">
                  20
21
22
                </bean>
               23⊜
24
25
26
               </bean>
27⊝
                <bean class="com.cognizant.spring_learn.Country">
                  28
29
30
               </bean>
31
            </list>
32
         </constructor-arg>
     </bean>
33
34 </beans>
```

```
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
        private static final Logger LOGGER = LoggerFactory.getLogger(CountryController.class);
18
190 @Autowired
20 private CountryService countryService;
21
22⊖
        @RequestMapping("/country")
       public Country getCountryIndia() {
   LOGGER.info("START - getCountryIndia()");
23
24
25
            ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");
            Country country = context.getBean("country", Country.class);
LOGGER.debug("Country : {}", country.toString());
26
27
28
            LOGGER.info("END - getCountryIndia()");
29
            return country;
30
       }
31
      @GetMapping("/countries/{code}")
329
33
      public Country getCountry(@PathVariable String code) {
34
            return countryService.getCountry(code);
3.5
36 }
37
```

Output:



6. Create Authentication Service That Returns JWT

