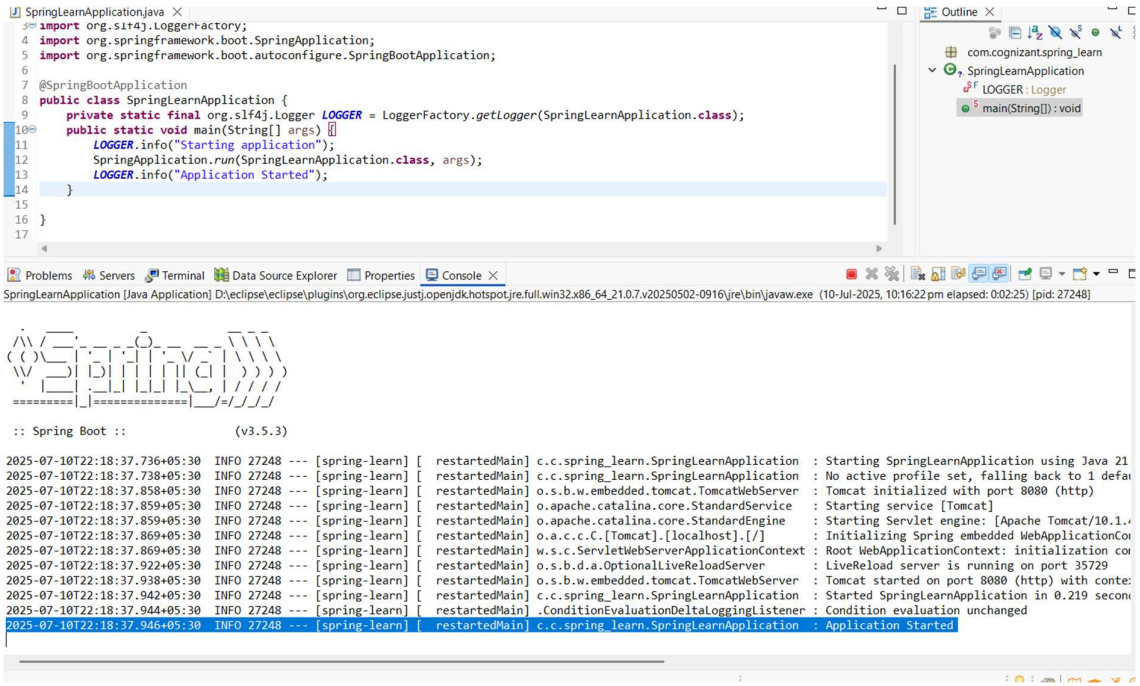
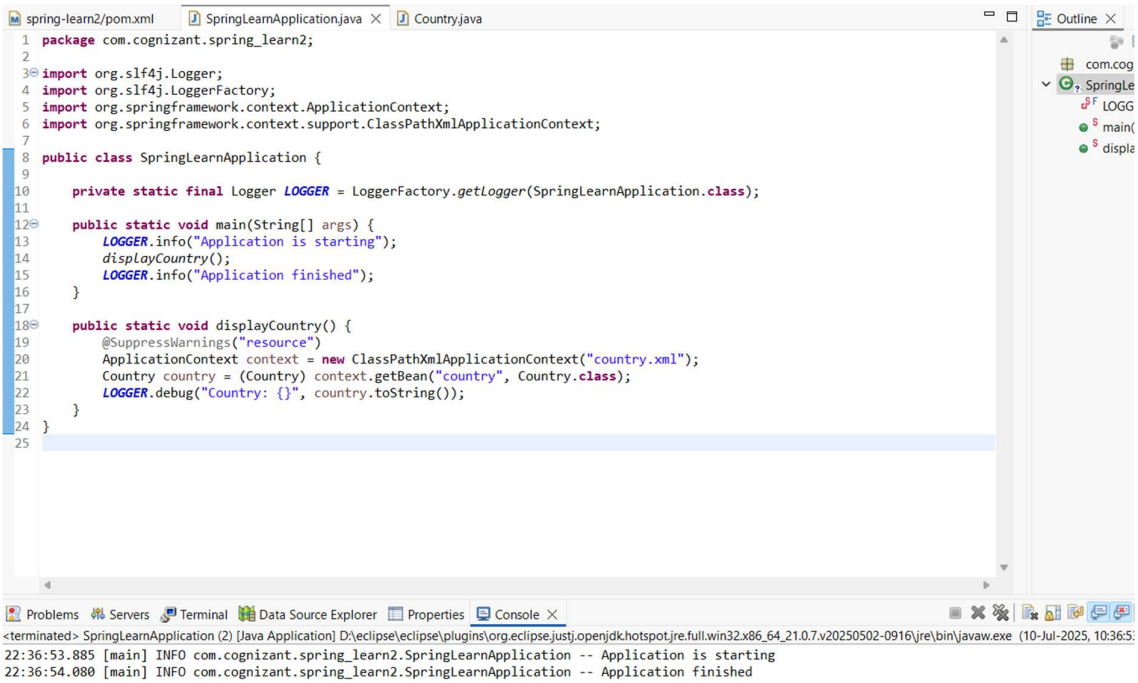
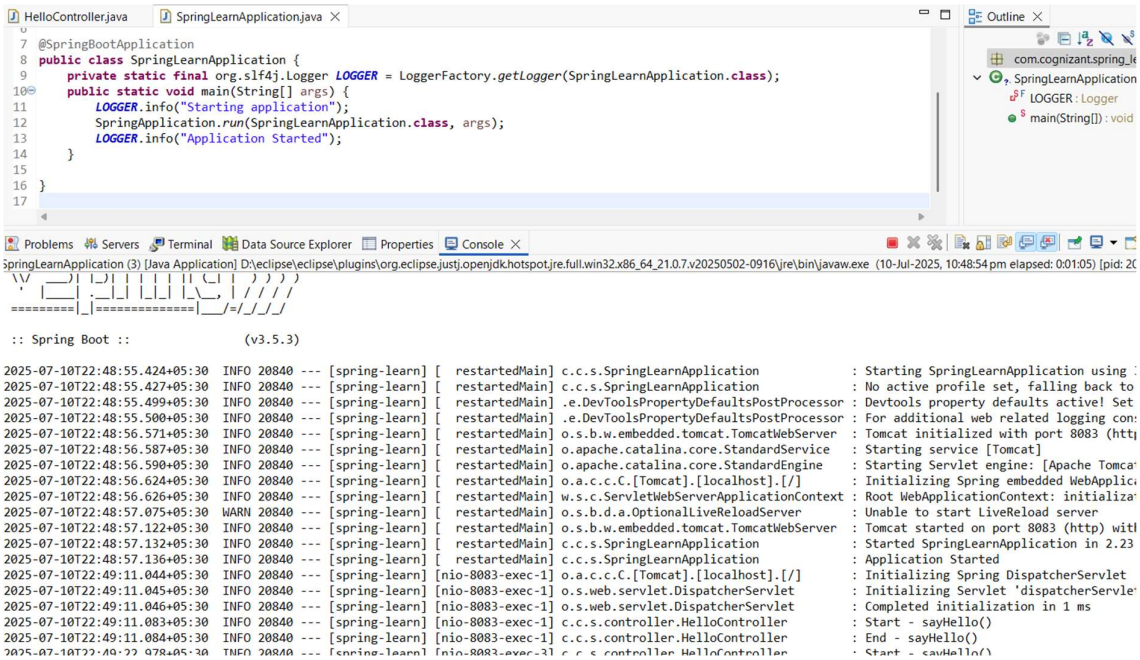
Exercise 1 Create a Spring Web Project using Maven

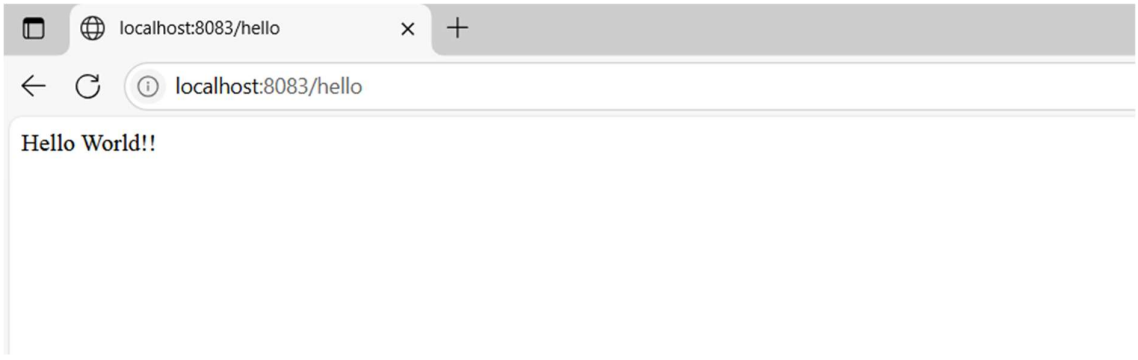


Exercise 2 Spring Core – Load Country from Spring Configuration XML

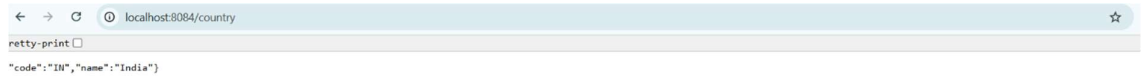


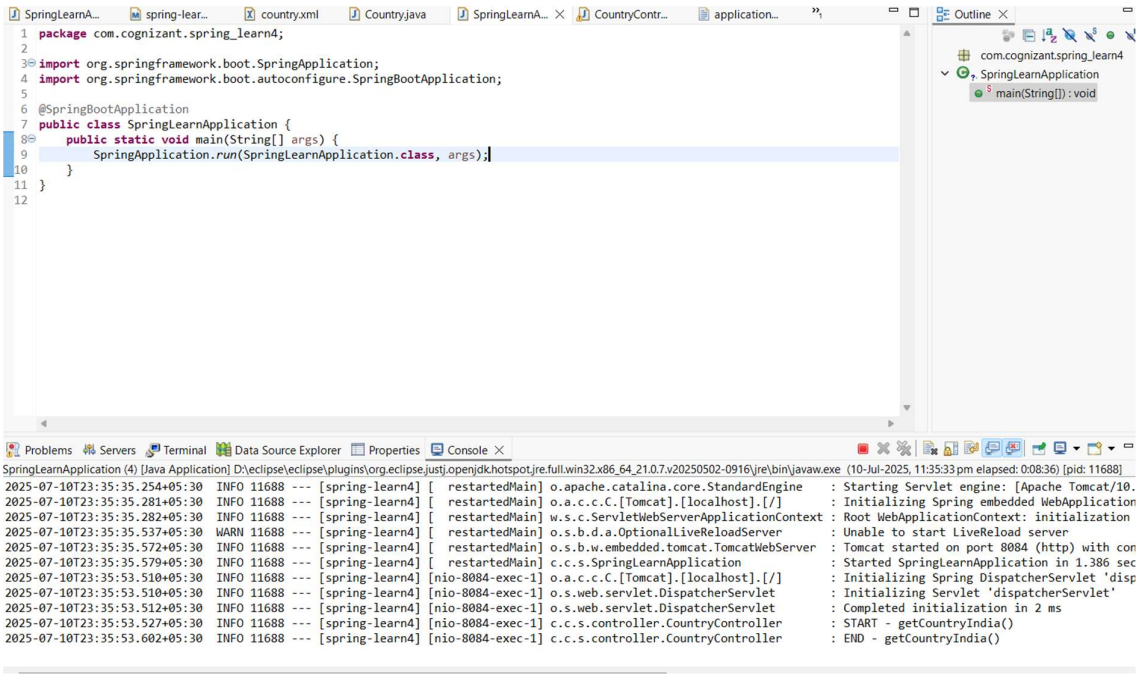
Exercise 3 Hello World RESTful Web Service



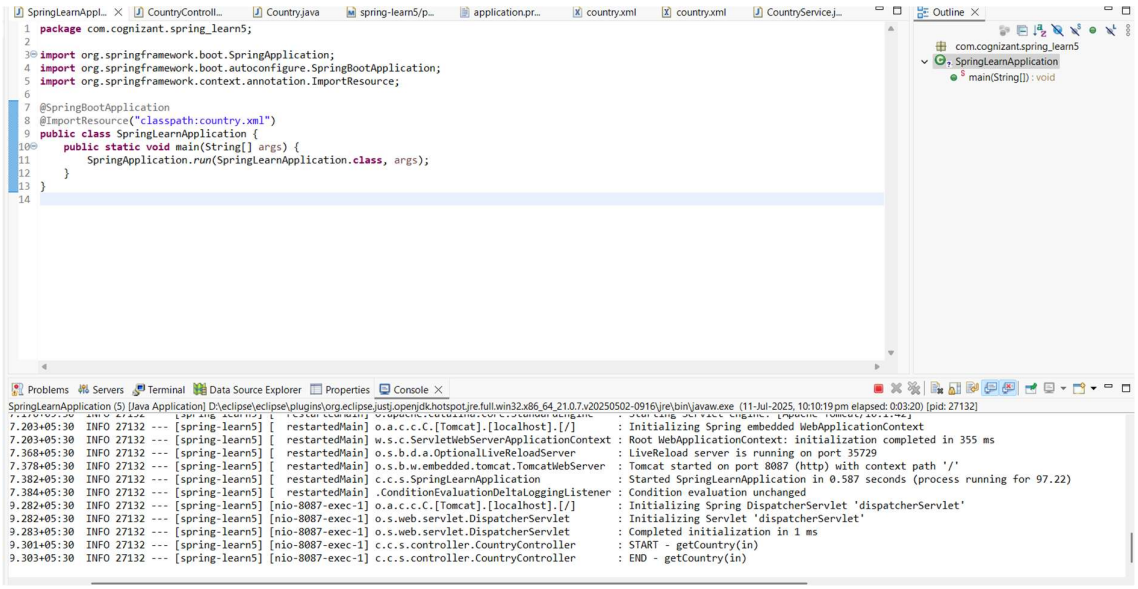


Exercise 4 REST - Country Web Service





Exercise 5 REST - Get country based on country code

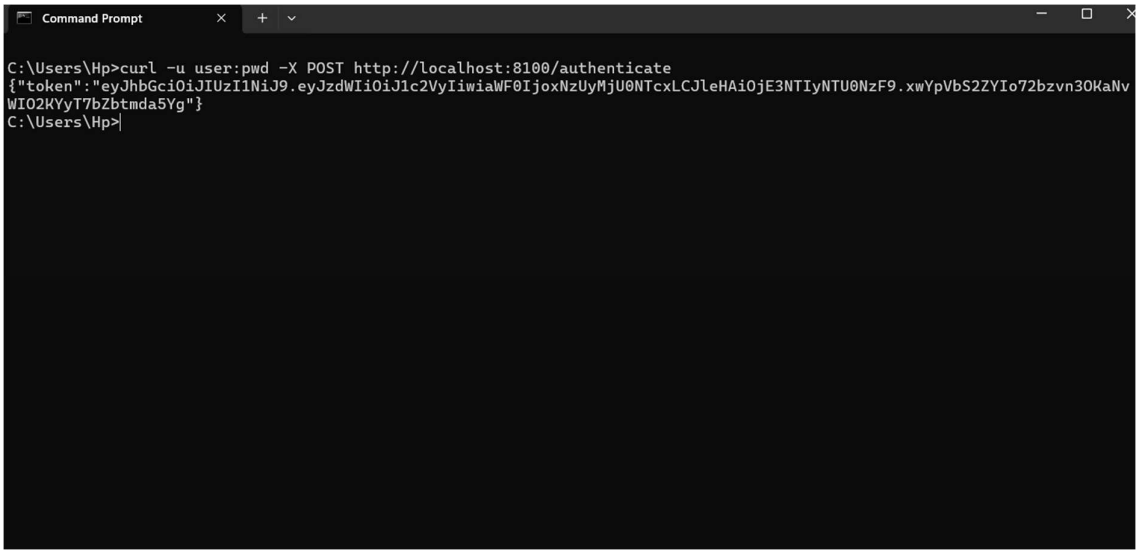


```
package com.cognizant.spring_learn5;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.annotation.ImportResource;

@SpringBootApplication
@ImportResource("classpath:country.xml")
public class SpringLearnApplication {
    public static void main(String[] args) {
        SpringApplication.run(SpringLearnApplication.class, args);
    }
}
```

```
SpringLearnApplication (5) [Java Application] D:\eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw.exe (11-Jul-2025, 10:10:19 pm elapsed: 0:03:20) [pid: 27132]
7.203+05:30  INFO 27132 --- [spring-learn5] [  restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplicationContext
7.203+05:30  INFO 27132 --- [spring-learn5] [  restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 355 ms
7.368+05:30  INFO 27132 --- [spring-learn5] [  restartedMain] o.s.b.d.a.OptionalLiveReloadServer       : LiveReload server is running on port 35729
7.378+05:30  INFO 27132 --- [spring-learn5] [  restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port 8087 (http) with context path '/'
7.382+05:30  INFO 27132 --- [spring-learn5] [  restartedMain] c.c.s.SpringLearnApplication             : Started SpringLearnApplication in 0.587 seconds (process running for 97.22)
7.384+05:30  INFO 27132 --- [spring-learn5] [  restartedMain] .ConditionEvaluationDeltaLoggingListener : Condition evaluation unchanged
9.282+05:30  INFO 27132 --- [spring-learn5] [nio-8087-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring DispatcherServlet 'dispatcherServlet'
9.282+05:30  INFO 27132 --- [spring-learn5] [nio-8087-exec-1] o.s.web.servlet.DispatcherServlet        : Initializing Servlet 'dispatcherServlet'
9.283+05:30  INFO 27132 --- [spring-learn5] [nio-8087-exec-1] o.s.web.servlet.DispatcherServlet        : Completed initialization in 1 ms
9.301+05:30  INFO 27132 --- [spring-learn5] [nio-8087-exec-1] c.c.s.controller.CountryController       : START - getCountry(in)
9.303+05:30  INFO 27132 --- [spring-learn5] [nio-8087-exec-1] c.c.s.controller.CountryController       : END - getCountry(in)
```

```
localhost:8087/countries/in
Pretty-print
{"code":"IN","name":"India"}
```

Exercise 6 Create authentication service that returns JWT



```
Command Prompt

C:\Users\Hp>curl -u user:pwd -X POST http://localhost:8100/authenticate
{"token":"eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJ1c2VyIiwiaWF0IjoxNzUyMjU0NTcxLCJleHAiOjE3NTIyNTU0NzF9.xwYpVbS2ZYIo72bzvn3OKaNvWIO2KYyT7bZbtmda5Yg"}
C:\Users\Hp>
```