

HTTP Request Response

Output:

The screenshot shows the Eclipse IDE with the file `SpringLearnRestApiApplication.java` open. The code defines a `SpringLearnRestApiApplication` class that extends `SpringBootApplication` and has a `main` method that calls `SpringApplication.run`. The console output shows the application starting successfully on port 9000.

```
package com.cognizant.springlearn.springlearnrestapi;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class SpringLearnRestApiApplication {

    public static void main(String[] args) {
        SpringApplication.run(SpringLearnRestApiApplication.class, args);
    }
}
```

```
2025-07-11T23:55:46.881+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Starting SpringLearnRestApiApplication us
2025-07-11T23:55:46.953+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : No active profile set, falling back to 1
2025-07-11T23:55:46.954+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults: active! Set 's
2025-07-11T23:55:48.079+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : For additional web related logging consid
2025-07-11T23:55:48.093+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 9000 (http)
2025-07-11T23:55:48.093+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-07-11T23:55:48.093+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/1
2025-07-11T23:55:48.151+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded Webapplicati
2025-07-11T23:55:48.152+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initializatio
2025-07-11T23:55:48.574+05:30 WARN 16516 --- [spring-learn-rest-api] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : Unable to start LiveReload server
2025-07-11T23:55:48.620+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 9000 (http) with c
2025-07-11T23:55:48.635+05:30 INFO 16516 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Started SpringLearnRestApiApplication in
```

Hello World RESTful Web Service

Output:

The screenshot shows the Eclipse IDE with the file `SpringLearnRestApiApplication.java` open. The code is identical to the previous one. The console output shows the application starting successfully on port 9001.

```
package com.cognizant.springlearn.springlearnrestapi;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

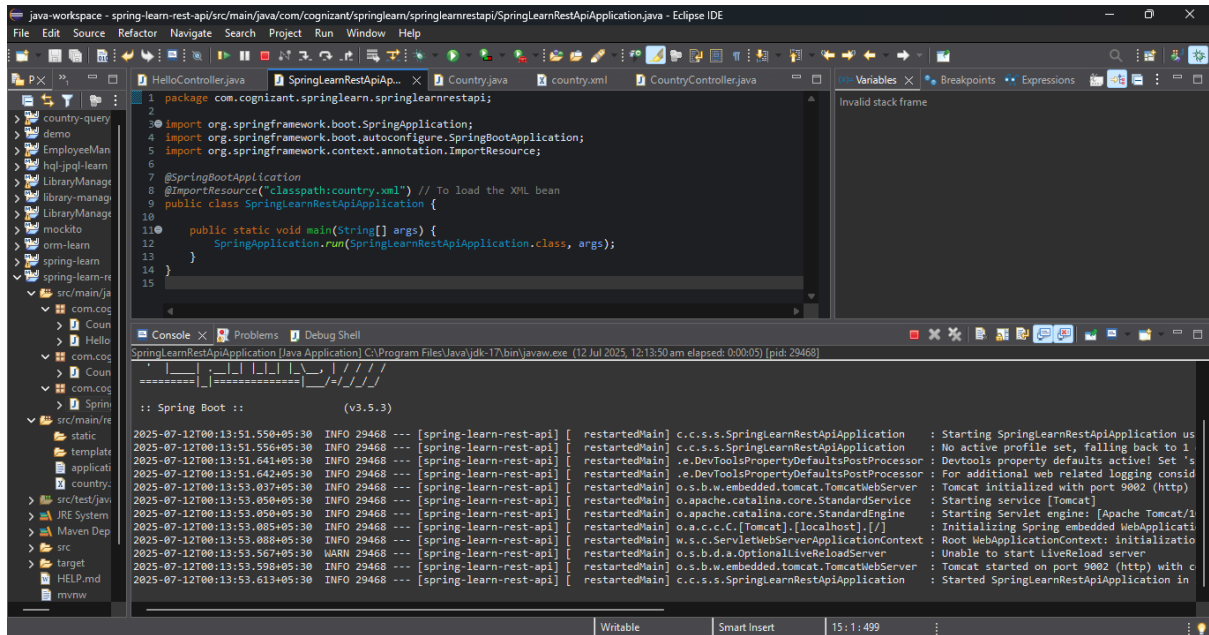
@SpringBootApplication
public class SpringLearnRestApiApplication {

    public static void main(String[] args) {
        SpringApplication.run(SpringLearnRestApiApplication.class, args);
    }
}
```

```
2025-07-12T00:06:34.180+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Starting SpringLearnRestApiApplication us
2025-07-12T00:06:34.186+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : No active profile set, falling back to 1
2025-07-12T00:06:34.318+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults: active! Set 's
2025-07-12T00:06:34.318+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consid
2025-07-12T00:06:36.349+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 9001 (http)
2025-07-12T00:06:36.363+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Starting service [Tomcat]
2025-07-12T00:06:36.363+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardService : Starting Servlet engine: [Apache Tomcat/1
2025-07-12T00:06:36.403+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded Webapplicati
2025-07-12T00:06:36.405+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initializatio
2025-07-12T00:06:36.943+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : Unable to start LiveReload server
2025-07-12T00:06:36.980+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 9001 (http) with c
2025-07-12T00:06:36.992+05:30 INFO 29568 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Started SpringLearnRestApiApplication in
```

REST - Country Web Service

Output:



The screenshot shows the Eclipse IDE with the file `SpringLearnRestApiApplication.java` open. The code is as follows:

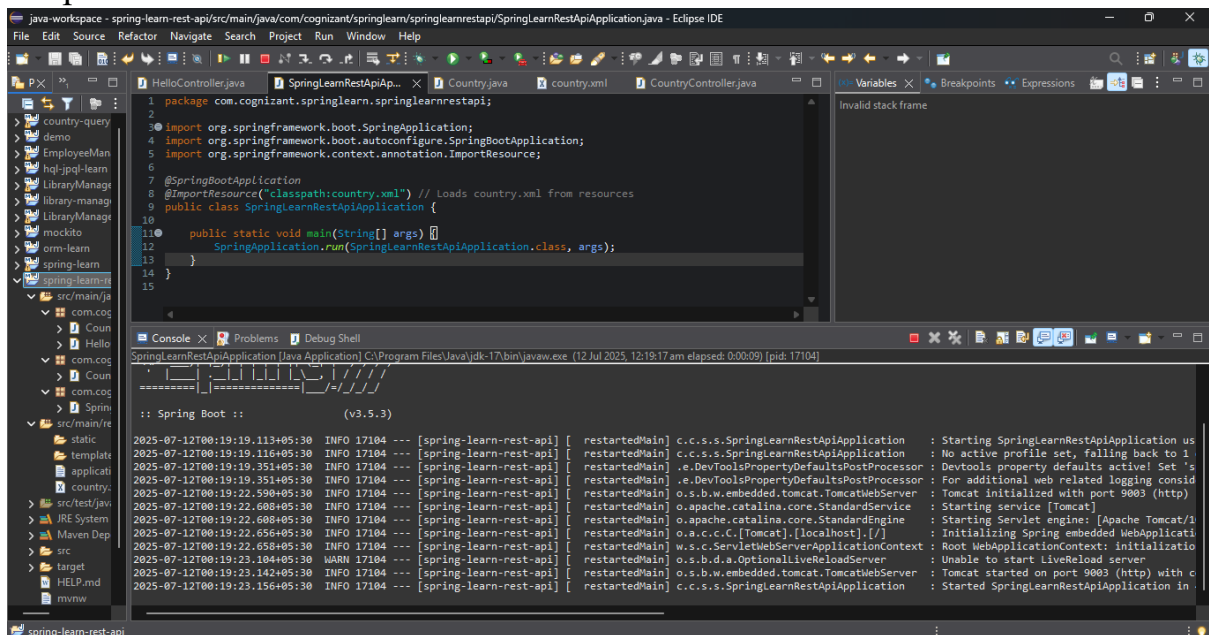
```
1 package com.cognizant.springlearn.springlearnrestapi;
2
3
4 import org.springframework.boot.SpringApplication;
5 import org.springframework.boot.autoconfigure.SpringBootApplication;
6 import org.springframework.context.annotation.ImportResource;
7
8 @SpringBootApplication
9 @ImportResource("classpath:country.xml") // To load the XML bean
10 public class SpringLearnRestApiApplication {
11
12     public static void main(String[] args) {
13         SpringApplication.run(SpringLearnRestApiApplication.class, args);
14     }
15 }
```

The console output shows the application starting successfully on port 9002:

```
2025-07-12T00:13:51.558+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Starting SpringLearnRestApiApplication us
2025-07-12T00:13:51.556+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : No active profile set, falling back to 1
2025-07-12T00:13:51.641+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 's
2025-07-12T00:13:51.642+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consid
2025-07-12T00:13:53.037+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 9002 (http)
2025-07-12T00:13:53.050+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-07-12T00:13:53.050+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/1
2025-07-12T00:13:53.085+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicati
2025-07-12T00:13:53.088+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initializatio
2025-07-12T00:13:53.567+05:30 WARN 29468 --- [spring-learn-rest-api] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : Unable to start LiveReload server
2025-07-12T00:13:53.598+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 9002 (http) with c
2025-07-12T00:13:53.613+05:30 INFO 29468 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Started SpringLearnRestApiApplication in
```

REST - Get all countries

Output:



The screenshot shows the Eclipse IDE with the file `SpringLearnRestApiApplication.java` open. The code is as follows:

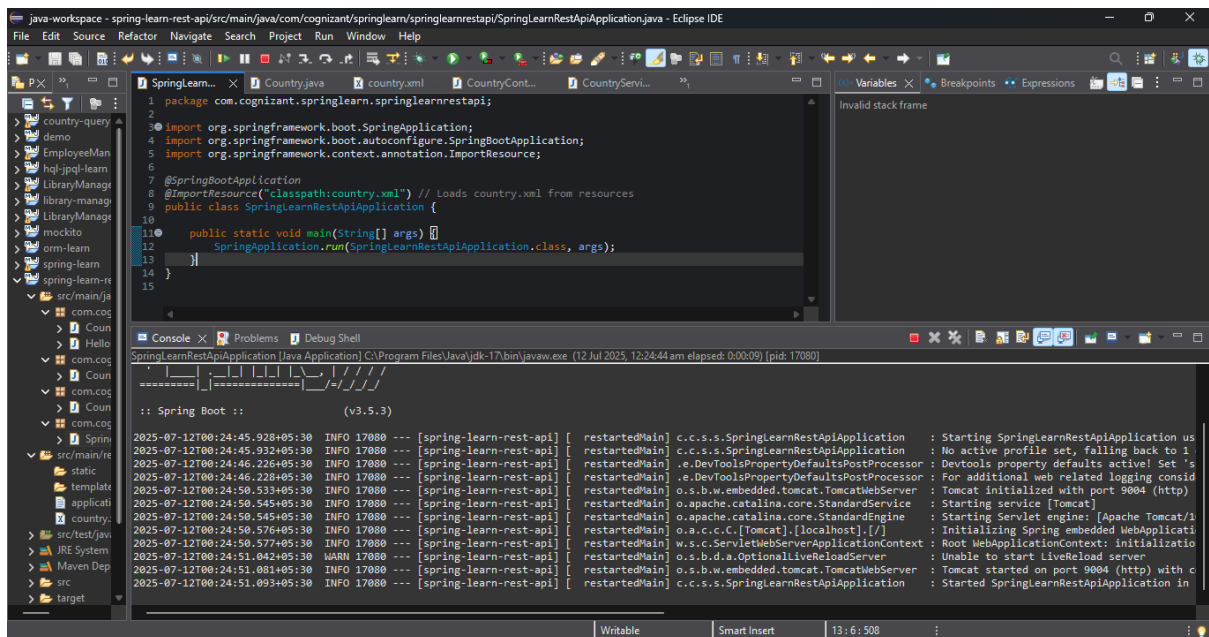
```
1 package com.cognizant.springlearn.springlearnrestapi;
2
3
4 import org.springframework.boot.SpringApplication;
5 import org.springframework.boot.autoconfigure.SpringBootApplication;
6 import org.springframework.context.annotation.ImportResource;
7
8 @SpringBootApplication
9 @ImportResource("classpath:country.xml") // Loads country.xml from resources
10 public class SpringLearnRestApiApplication {
11
12     public static void main(String[] args) {}
13     SpringApplication.run(SpringLearnRestApiApplication.class, args);
14 }
15
```

The console output shows the application starting successfully on port 9003:

```
2025-07-12T00:19:19.113+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Starting SpringLearnRestApiApplication us
2025-07-12T00:19:19.116+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : No active profile set, falling back to 1
2025-07-12T00:19:19.351+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 's
2025-07-12T00:19:19.351+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consid
2025-07-12T00:19:22.608+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 9003 (http)
2025-07-12T00:19:22.608+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-07-12T00:19:22.656+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/1
2025-07-12T00:19:22.656+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicati
2025-07-12T00:19:23.104+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initializatio
2025-07-12T00:19:23.104+05:30 WARN 17104 --- [spring-learn-rest-api] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : Unable to start LiveReload server
2025-07-12T00:19:23.142+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 9003 (http) with c
2025-07-12T00:19:23.156+05:30 INFO 17104 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Started SpringLearnRestApiApplication in
```

REST - Get country based on country code

Output:



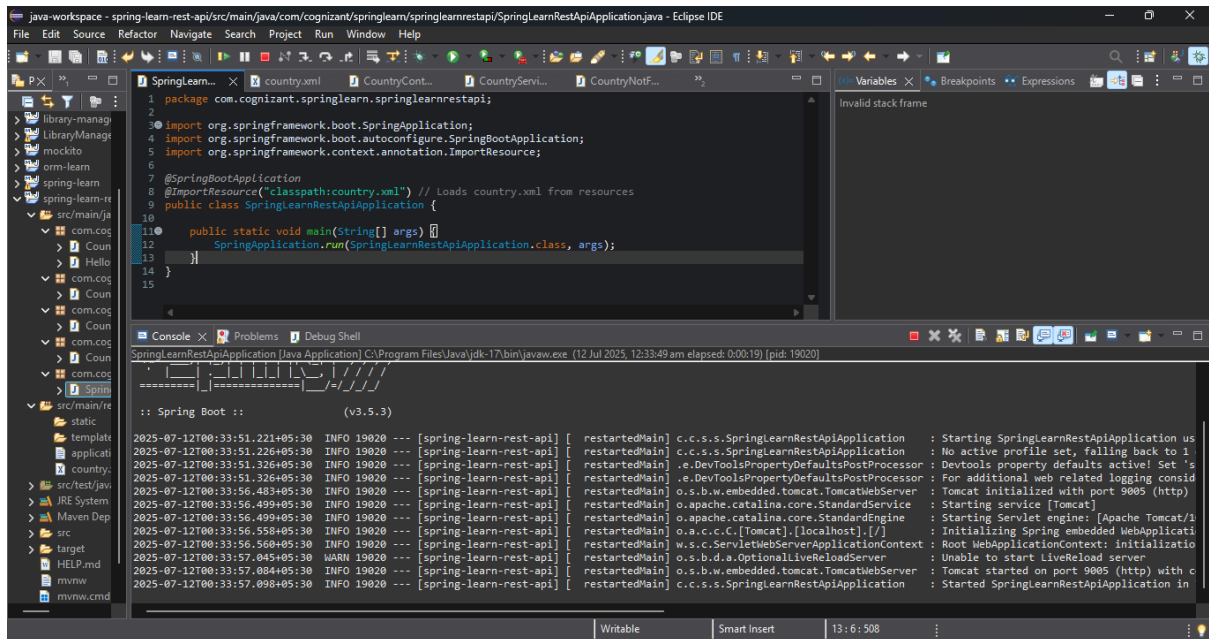
```
java-workspace - spring-learn-rest-api/src/main/java/com/cognizant/springlearn/springlearnrestapi/SpringLearnRestApiApplication.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

P SpringLearn... X Country.java X country.xml X CountryCont... X CountryServi...
1 package com.cognizant.springlearn.springlearnrestapi;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5 import org.springframework.context.annotation.ImportResource;
6
7 @SpringBootApplication
8 @ImportResource("classpath:country.xml") // Loads country.xml from resources
9 public class SpringLearnRestApiApplication {
10
11     public static void main(String[] args) {
12         SpringApplication.run(SpringLearnRestApiApplication.class, args);
13     }
14 }
15

Console X Problems X Debug Shell
SpringLearnRestApiApplication [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (12 Jul 2025, 12:24:44 am elapsed: 0:00:09) [pid: 17080]
:: Spring Boot :: (v3.5.3)
2025-07-12T00:24:45.928+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Starting SpringLearnRestApiApplication us
2025-07-12T00:24:45.932+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : No active profile set, falling back to 1
2025-07-12T00:24:46.226+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 's
2025-07-12T00:24:46.228+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consid
2025-07-12T00:24:50.333+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 9004 (http)
2025-07-12T00:24:50.545+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-07-12T00:24:50.545+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/1
2025-07-12T00:24:50.576+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicati
2025-07-12T00:24:50.577+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initializatio
2025-07-12T00:24:51.042+05:30 WARN 17080 --- [spring-learn-rest-api] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : Unable to start LiveReload server
2025-07-12T00:24:51.081+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 9004 (http) with c
2025-07-12T00:24:51.093+05:30 INFO 17080 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Started SpringLearnRestApiApplication in
```

REST - Get country exceptional scenario

Output:



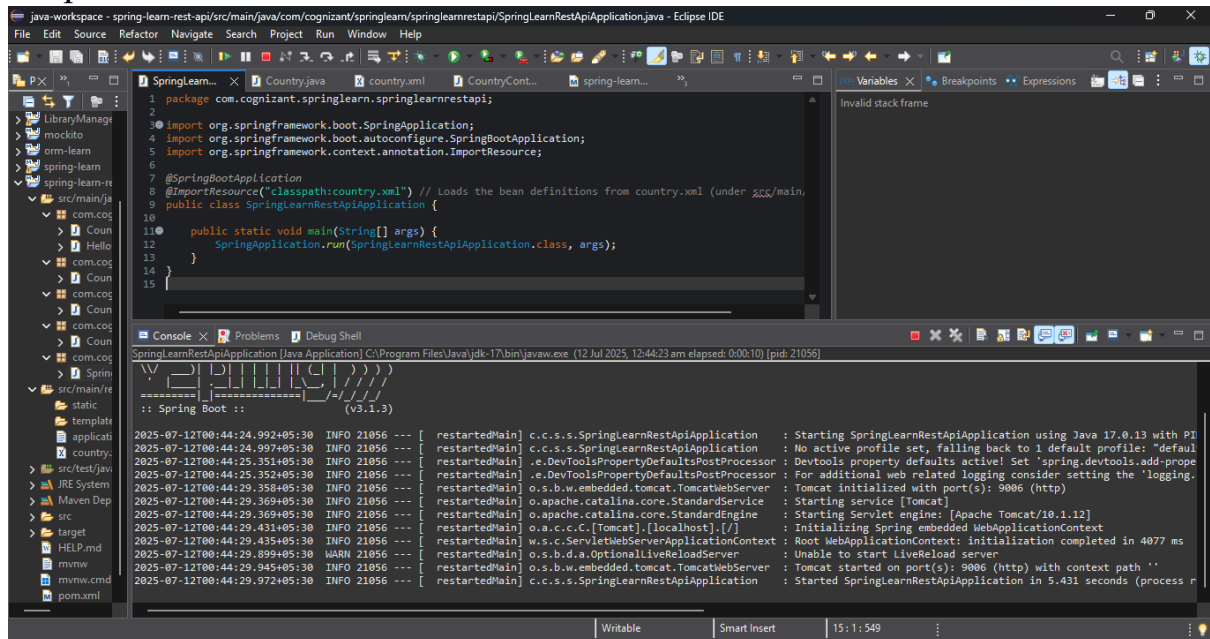
```
java-workspace - spring-learn-rest-api/src/main/java/com/cognizant/springlearn/springlearnrestapi/SpringLearnRestApiApplication.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

P SpringLearn... X country.xml X CountryCont... X CountryServi... X CountryNotF...
1 package com.cognizant.springlearn.springlearnrestapi;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5 import org.springframework.context.annotation.ImportResource;
6
7 @SpringBootApplication
8 @ImportResource("classpath:country.xml") // Loads country.xml from resources
9 public class SpringLearnRestApiApplication {
10
11     public static void main(String[] args) {
12         SpringApplication.run(SpringLearnRestApiApplication.class, args);
13     }
14 }
15

Console X Problems X Debug Shell
SpringLearnRestApiApplication [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (12 Jul 2025, 12:33:49 am elapsed: 0:00:19) [pid: 19020]
:: Spring Boot :: (v3.5.3)
2025-07-12T00:33:51.221+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Starting SpringLearnRestApiApplication us
2025-07-12T00:33:51.226+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : No active profile set, falling back to 1
2025-07-12T00:33:51.326+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 's
2025-07-12T00:33:51.326+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consid
2025-07-12T00:33:56.499+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 9005 (http)
2025-07-12T00:33:56.499+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-07-12T00:33:56.499+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/1
2025-07-12T00:33:56.558+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicati
2025-07-12T00:33:56.560+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initializatio
2025-07-12T00:33:57.045+05:30 WARN 19020 --- [spring-learn-rest-api] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : Unable to start LiveReload server
2025-07-12T00:33:57.084+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 9005 (http) with c
2025-07-12T00:33:57.098+05:30 INFO 19020 --- [spring-learn-rest-api] [ restartedMain] c.c.s.s.SpringLearnRestApiApplication : Started SpringLearnRestApiApplication in
```

MockMVC - Test get country service

Output:

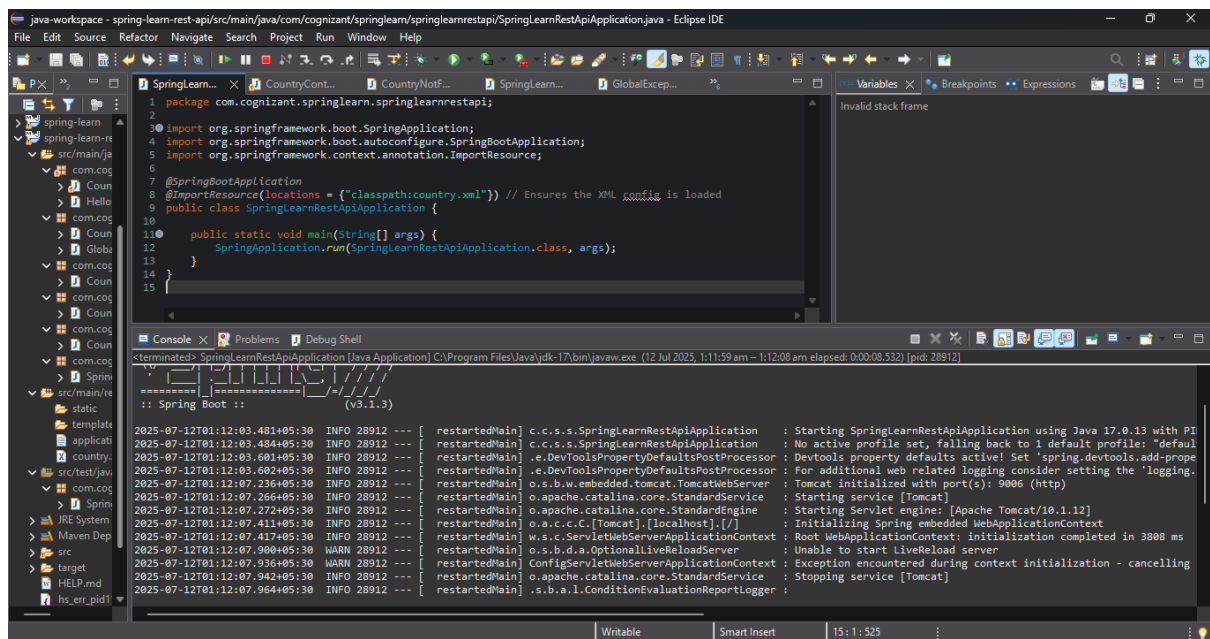


The screenshot shows the Eclipse IDE with the following components:

- Editor:** Displays the `SpringLearnRestApiApplication.java` file. The code includes imports for `SpringApplication`, `SpringBootApplication`, and `ImportResource`. It features a `@SpringBootApplication` annotation and a `@ImportResource("classpath:country.xml")` annotation. The `main` method calls `SpringApplication.run(SpringLearnRestApiApplication.class, args);`.
- Console:** Shows the output of the application. It starts with the Spring Boot logo and version (v3.1.3). The output indicates that the application is starting using Java 17.0.13 with PI. It lists the active profile as 'default' and shows the initialization of the Spring embedded WebApplicationContext. The application successfully starts on port 9006 (http) with context path '/'. The startup time is 5.431 seconds.

MockMVC - Test get country service for exceptional scenario

Output:



The screenshot shows the Eclipse IDE with the following components:

- Editor:** Displays the `SpringLearnRestApiApplication.java` file. The code is similar to the previous one, but it includes a `@ImportResource(locations = {"classpath:country.xml"})` annotation. The `main` method calls `SpringApplication.run(SpringLearnRestApiApplication.class, args);`.
- Console:** Shows the output of the application. It starts with the Spring Boot logo and version (v3.1.3). The output indicates that the application is starting using Java 17.0.13 with PI. It lists the active profile as 'default' and shows the initialization of the Spring embedded WebApplicationContext. The application successfully starts on port 9006 (http) with context path '/'. However, it then terminates with an exception: `Exception encountered during context initialization - cancelling`. The startup time is 3.808 ms.