

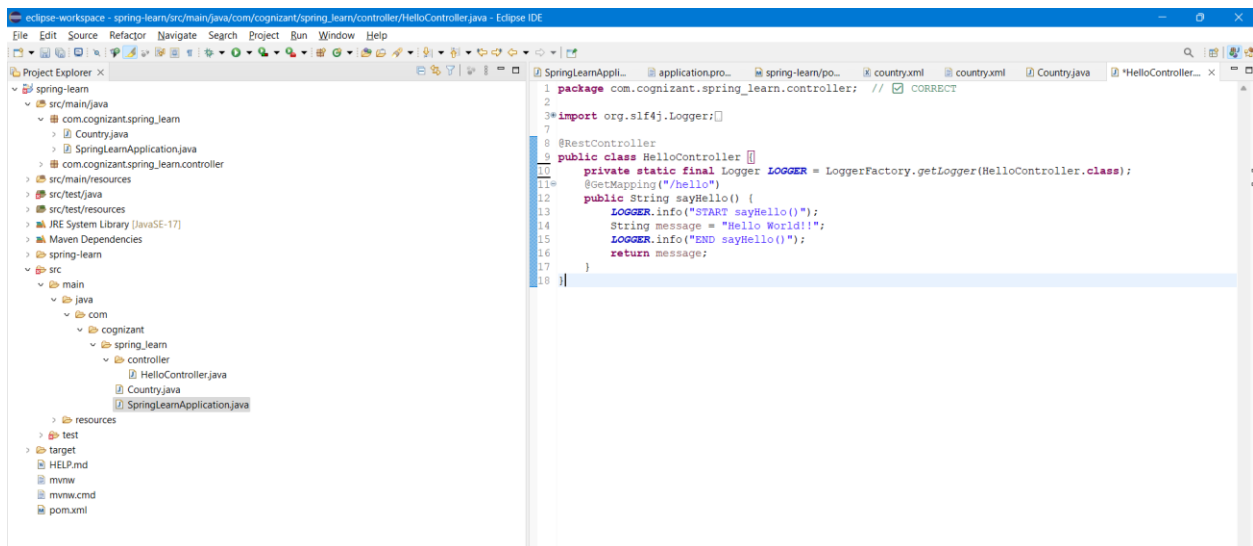
# Digital Nurture 4.0 Deep Skilling

## Week 4- HANDS ON 3

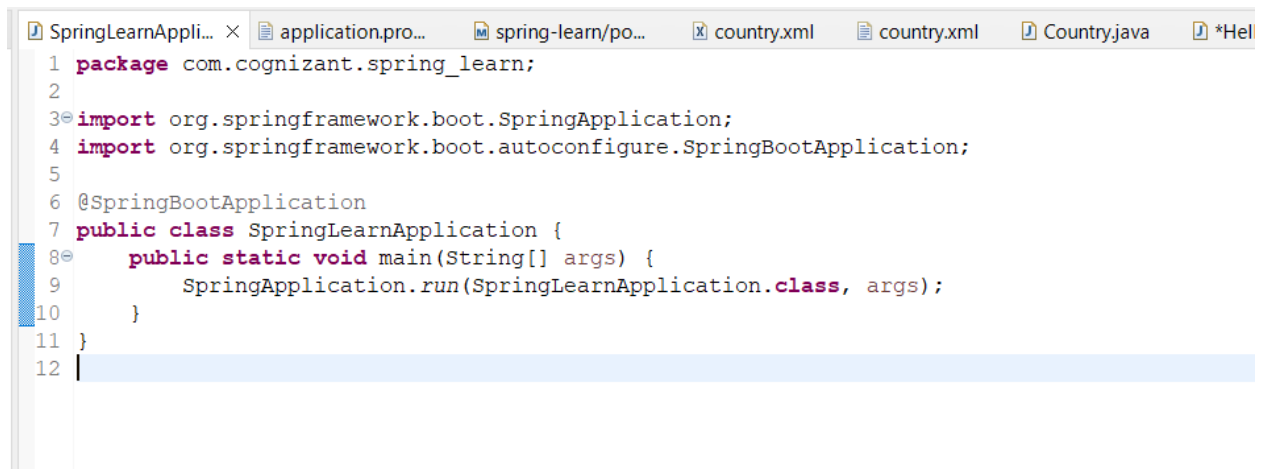
### 3. Hello World RESTful Web Service

Write a REST service in the spring learn application created earlier, that returns the text "Hello World!!" using Spring Web Framework. Refer details below:

**Code :**



```
1 package com.cognizant.spring_learn.controller; // CORRECT
2
3 import org.slf4j.Logger;
4
5 @RestController
6 public class HelloController {
7     private static final Logger LOGGER = LoggerFactory.getLogger(HelloController.class);
8     @GetMapping("/hello")
9     public String sayHello() {
10         LOGGER.info("START sayHello()");
11         String message = "Hello World!!";
12         LOGGER.info("END sayHello()");
13         return message;
14     }
15 }
```



```
1 package com.cognizant.spring_learn;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6 @SpringBootApplication
7 public class SpringLearnApplication {
8     public static void main(String[] args) {
9         SpringApplication.run(SpringLearnApplication.class, args);
10     }
11 }
12
```

## Dependencies

```
SpringLearnAppli... application.pro... *spring-learn/p... x country.xml country.xml Country.java *HelloController.j...
https://maven.apache.org/xsd/maven-4.0.0.xsd (xsi:schemaLocation)
1<project xmlns="http://maven.apache.org/POM/4.0.0"
2  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.
4  <modelVersion>4.0.0</modelVersion>
5  <parent>
6    <groupId>org.springframework.boot</groupId>
7    <artifactId>spring-boot-starter-parent</artifactId>
8    <version>3.1.0</version>
9    <relativePath/>
10 </parent>
11 <groupId>com.cognizant</groupId>
12 <artifactId>spring-learn</artifactId>
13 <version>0.0.1-SNAPSHOT</version>
14 <name>spring-learn</name>
15 <description>Demo Spring Boot Project</description>
16 <properties>
17   <java.version>17</java.version>
18 </properties>
19 <dependencies>
20   <dependency>
21     <groupId>org.springframework.boot</groupId>
22     <artifactId>spring-boot-starter-web</artifactId>
23   </dependency>
24   <dependency>
25     <groupId>org.springframework.boot</groupId>
26     <artifactId>spring-boot-devtools</artifactId>
27     <scope>runtime</scope>
28     <optional>true</optional>
29   </dependency>
30   <dependency>
31     <groupId>org.springframework.boot</groupId>
32     <artifactId>spring-boot-starter-logging</artifactId>
33   </dependency>
34 </dependencies>
35 <build>
36   <plugins>
```

## Output :

```
Overview | Dependencies | Dependency Hierarchy | Effective POM | pom.xml
Console x
SpringLearnApplication [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Jul 13, 2025, 1:18:35 PM) [pid: 21824]

:: Spring Boot ::
(v3.1.0)

2025-07-13T13:18:37.210+05:30 INFO 21824 --- [ restartedMain] c.c.spring_learn.SpringLearnApplication : Starting SpringLearnApplication using Java 20.0.2 with PID
21824 (C:\Users\HP\eclipse-workspace\spring-learn\target\classes started by HP in C:\Users\HP\eclipse-workspace\spring-learn)
2025-07-13T13:18:37.214+05:30 INFO 21824 --- [ restartedMain] c.c.spring_learn.SpringLearnApplication : No active profile set, falling back to 1 default profile:
"default"
2025-07-13T13:18:37.292+05:30 INFO 21824 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-
properties' to 'false' to disable
2025-07-13T13:18:37.293+05:30 INFO 21824 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the
'logging.level.web' property to 'DEBUG'
2025-07-13T13:18:38.770+05:30 INFO 21824 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8083 (http)
2025-07-13T13:18:38.786+05:30 INFO 21824 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-07-13T13:18:38.786+05:30 INFO 21824 --- [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.8]
2025-07-13T13:18:38.886+05:30 INFO 21824 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2025-07-13T13:18:38.889+05:30 INFO 21824 --- [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 1593
ms
2025-07-13T13:18:39.333+05:30 INFO 21824 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2025-07-13T13:18:39.391+05:30 INFO 21824 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8083 (http) with context path ''
2025-07-13T13:18:39.404+05:30 INFO 21824 --- [ restartedMain] c.c.spring_learn.SpringLearnApplication : Started SpringLearnApplication in 2.726 seconds (process
running for 3.271)
2025-07-13T13:19:27.343+05:30 INFO 21824 --- [nio-8083-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2025-07-13T13:19:27.344+05:30 INFO 21824 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2025-07-13T13:19:27.345+05:30 INFO 21824 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 1 ms
2025-07-13T13:19:27.396+05:30 INFO 21824 --- [nio-8083-exec-1] c.c.s.controller.HelloController : START sayHello()
2025-07-13T13:19:27.396+05:30 INFO 21824 --- [nio-8083-exec-1] c.c.s.controller.HelloController : END sayHello()
2025-07-13T13:21:12.656+05:30 INFO 21824 --- [nio-8083-exec-5] c.c.s.controller.HelloController : START sayHello()
2025-07-13T13:21:12.659+05:30 INFO 21824 --- [nio-8083-exec-5] c.c.s.controller.HelloController : END sayHello()
```

