

OUTPUTS – Spring Rest

Exercise 1 :

```
2025-07-09 23:22:56.123 INFO 12345 --- [main] c.c.SpringLearnApplication
2025-07-09 23:22:56.456 INFO 12345 --- [main] c.c.SpringLearnApplication
```

Created a simple Spring Boot project with Maven to build a basic web app. Connected the project to Eclipse, added logging, and verified the main method is running successfully.

Exercise 2:

```
Inside Country Constructor.
Inside setCode.
Inside setName.
Inside getCode.
Inside getName.
Country [code=IN, name=India]
```

Created a simple Spring app to load country details using a Spring XML config. Connected the *country.xml* file and fetched the bean to print it using Spring's *ApplicationContext*.

Exercise 3:

```
GET http://localhost:8083/hello
```

```
Hello World!!
```

```
2025-07-09 23:45:13 INFO 12345 --- [nio-8083-exec-1] c.c.springlearn.controller.HelloController
2025-07-09 23:45:13 INFO 12345 --- [nio-8083-exec-1] c.c.springlearn.controller.HelloController
```

Created a simple controller to return “Hello World!!” using a GET API. Connected the route to */hello* and added start–end logs.

Exercise 4:

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

```
INFO 12345 --- [nio-8083-exec-1] CountryController : START getCountryIndia()
INFO 12345 --- [nio-8083-exec-1] CountryController : END getCountryIndia()
```

Created a simple REST API */country* that returns India's details. Connected Spring XML config using *ApplicationContext* and Spring automatically returned the bean as JSON.

Exercise 5:

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

Created a REST API that takes a country code from the URL, matches it with a list of countries loaded from the XML, and returns the matched country. Connected the controller with the service layer.

Exercise 6:

```
curl -s -u user:pwd http://localhost:8090/authenticate
```

```
{
  "token": "eyJhbGciOiJIUzI1NiJ9..."
}
```

Created a simple auth controller that reads basic auth credentials (*user:pwd*) from the request and returns a JWT token on success. Connected the controller to Spring Security and configured it to allow */authenticate* without auth.