Environment and Tools used:
1) Windows 10
2) Eclispe IDE (STS Plugin)
3) Spring Boot
4) Java 8+ (jdk need to be installed in order to build and run the application)
5) Postman for Testing.

Coding Exercise Testing:

1) To run the application locally copy the .jar file attached
   (**Royal-Mail-RestFULL-api-0.0.1-SNAPSHOT.jar**) on to your computer.
2) Run the below command from command line to run the application locally from the path
   where you have copied the jar file,
3) **java -jar Royal-Mail-RestFULL-api-0.0.1-SNAPSHOT.jar**
4) You should be able to see that the server is started as below. Once the server is started
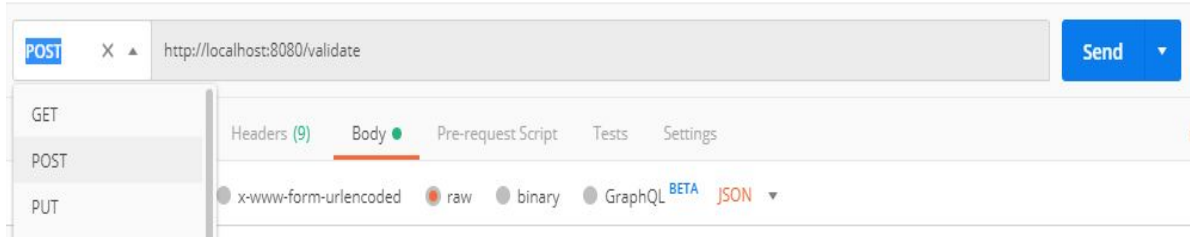   successfully please follow step 5.

5) I have used POSTMAN app to test the solution, alternatively you can use SOAP UI.
6) Open the POSTMAN app and copy the URL "http://localhost:8080/validate" in the
   request header as shown below.
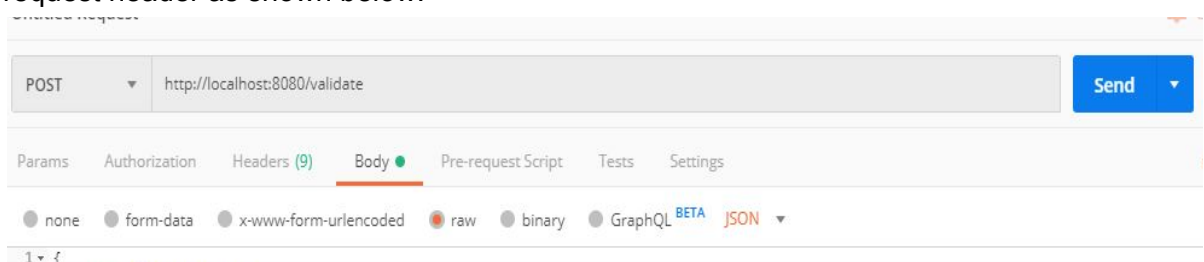
7) Make sure you select the Method type ad POST as shown below.

8) Use the request as shown below.

```
{
        "ID":"AA473124829GB"
}
```

9) Make sure the under the body you select the raw type and paste the above request in the window as shown below.
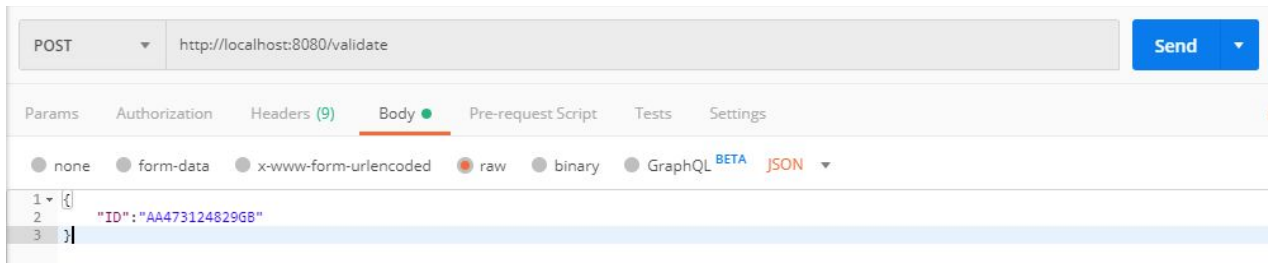
10) Once the request is ready click on the send button and you should be able to see the response in the window below. You can change the S10 barcode as per your request and based on the validation you can see the response as True or False.

Coding Exercise Solution:

1) Attached the code in a ZIP file "Royal-Mail-RestFULL-api.zip".
2) Unzip the file and import it any IDE (Eclipse recommended with STS Plugin).
3) If you want to build the application again to create the jar file which is already provided in the attachment, please run the below command from the project folder.
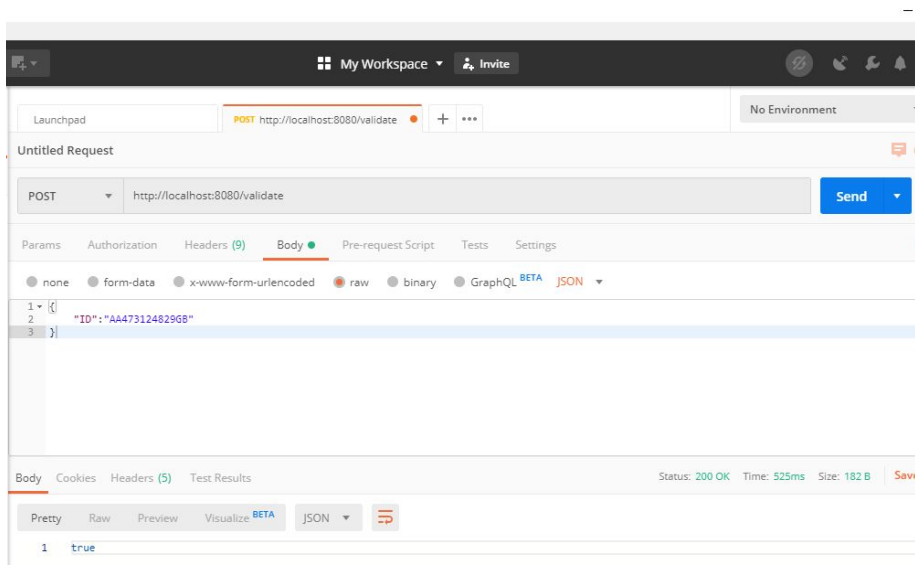
   Command: mvnw clean package

```
[INFO] Results:
[INFO]
[INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.1.2:jar (default-jar) @ Royal-Mail-RestFULL-api ---
[INFO] Building jar: C:\Arvind\Java\Practice\Royal-Mail-RestFULL-api\target\Royal-Mail-RestFULL-api-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.1.13.BUILD-SNAPSHOT:repackage (repackage) @ Royal-Mail-RestFULL-api ---
[INFO] Replacing main artifact with repackaged archive
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  22.469 s
[INFO] Finished at: 2020-02-08T13:51:28Z
[INFO] ------------------------------------------------------------------------
```

   Once the build is successful you can find the jar file created under the target folder inside the project folder from where you ran the mvnw clean package command.