

# CS551 Advanced Software Engineering

## LAB ASSIGNMENT #6

### Problem:

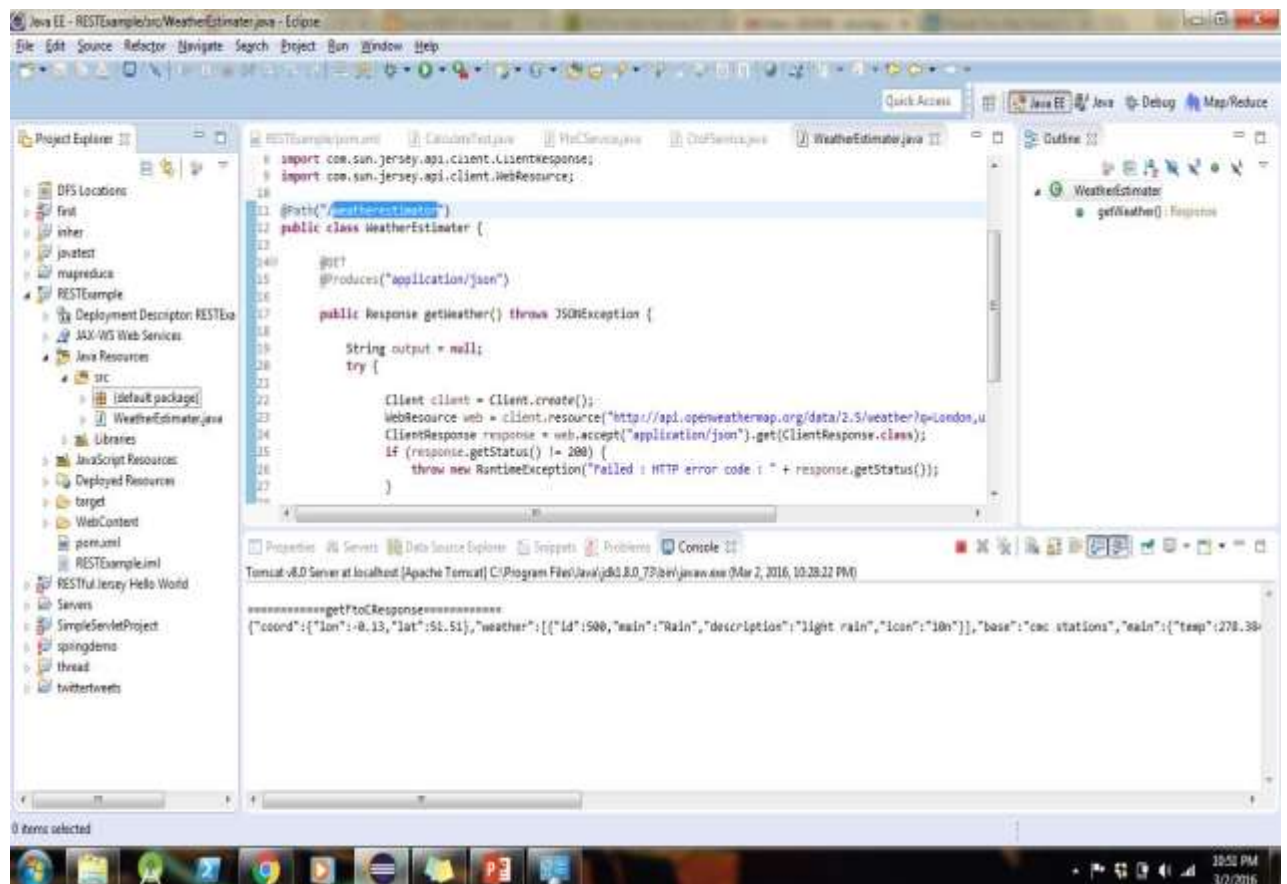
Implementing Web server proxy using integration of Weather and Foursquare REST Service and creating unit test cases for the same.

**IDE:** Eclipse Mars.

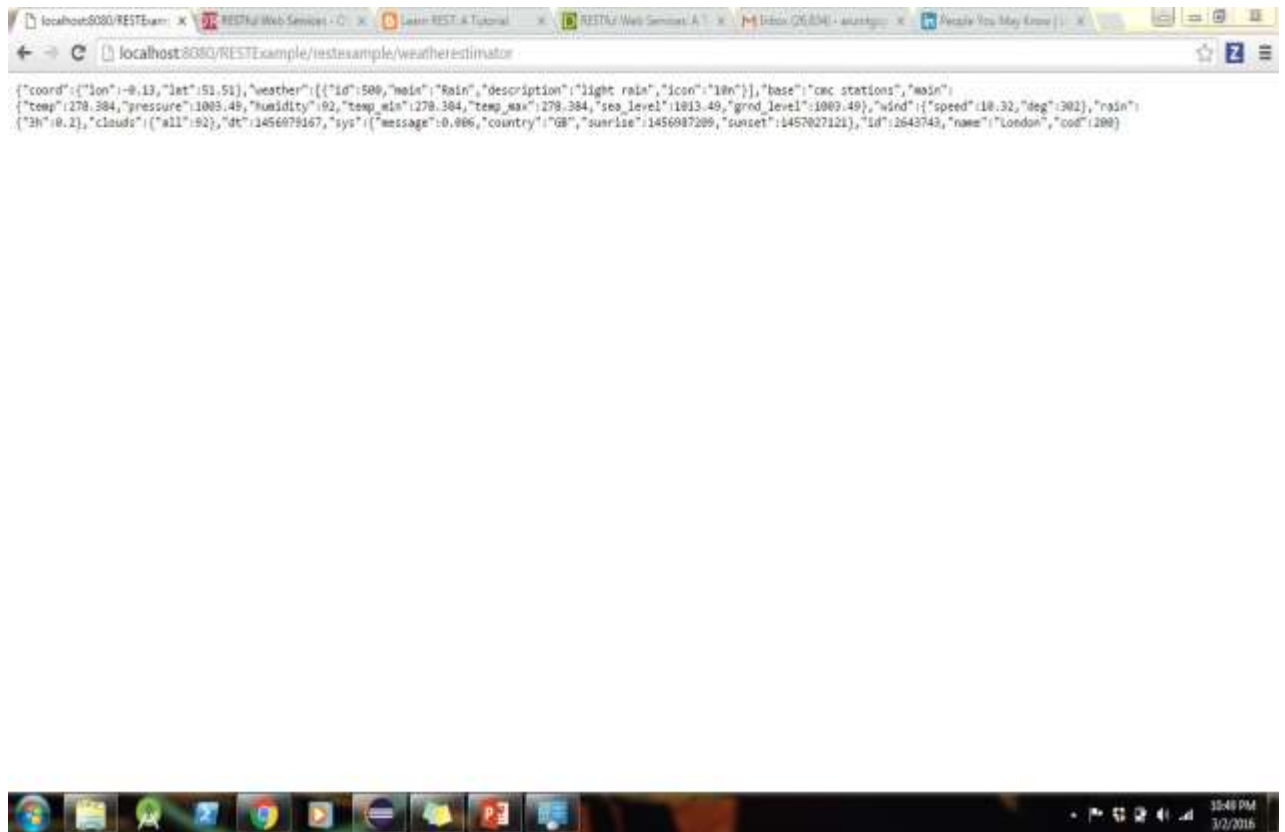
**Server:** Tomcat 8.0

### ScreenShots:

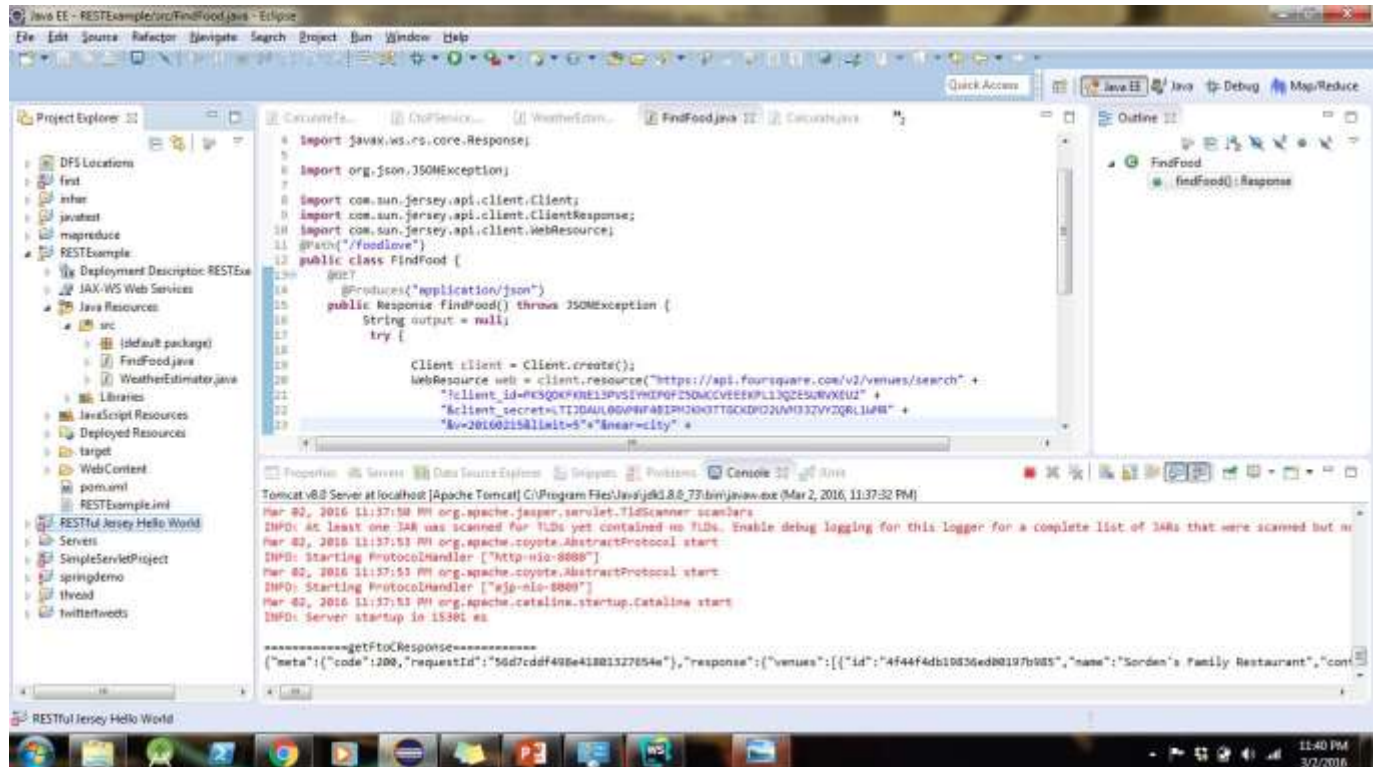
- Java Code for Weather Rest Service – Successful run.



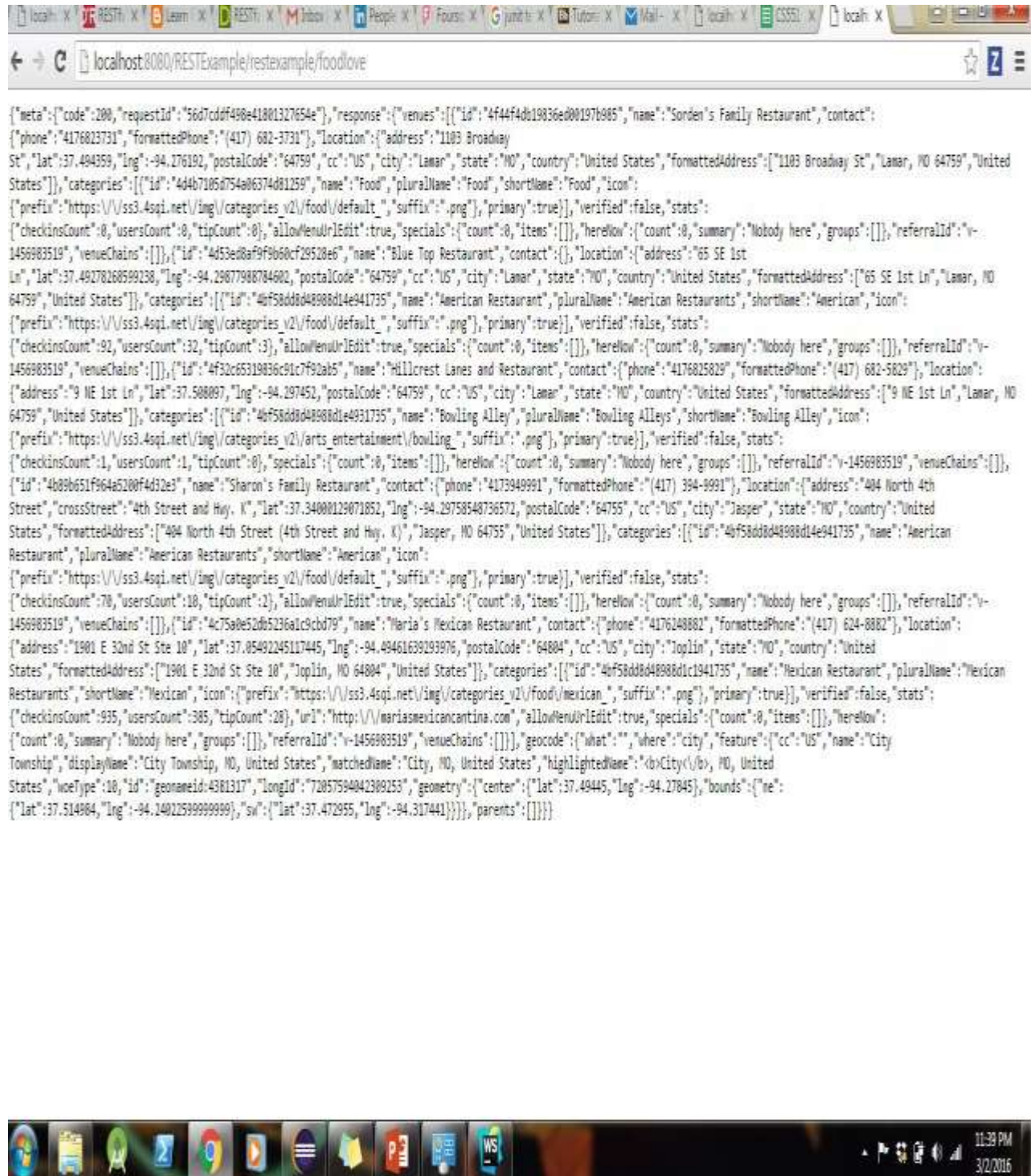
- Output of Weather Json on browser.



- Java Code for Four Square Rest API successful run.

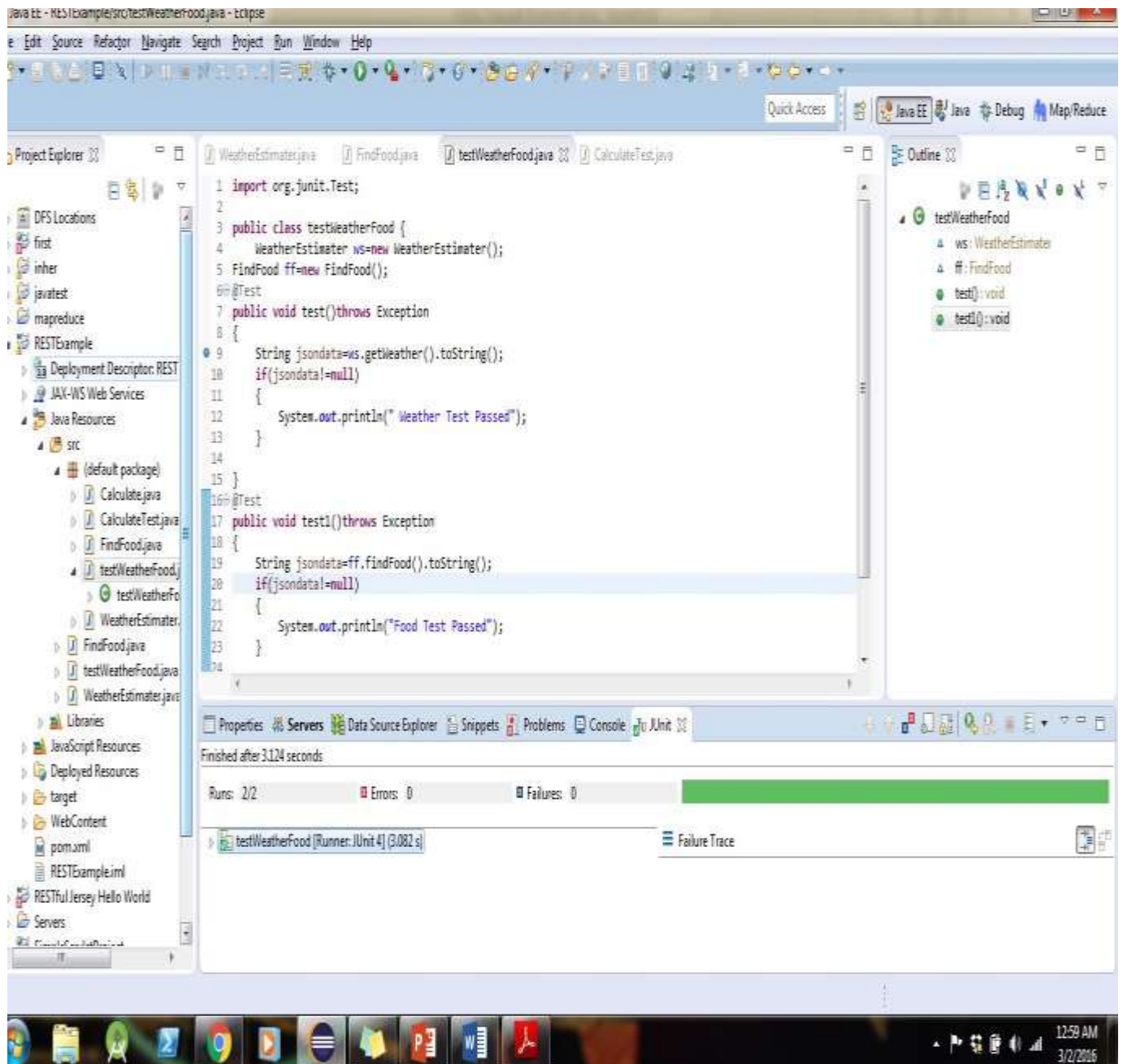


- Output of Json data on browser for foursquare rest services.

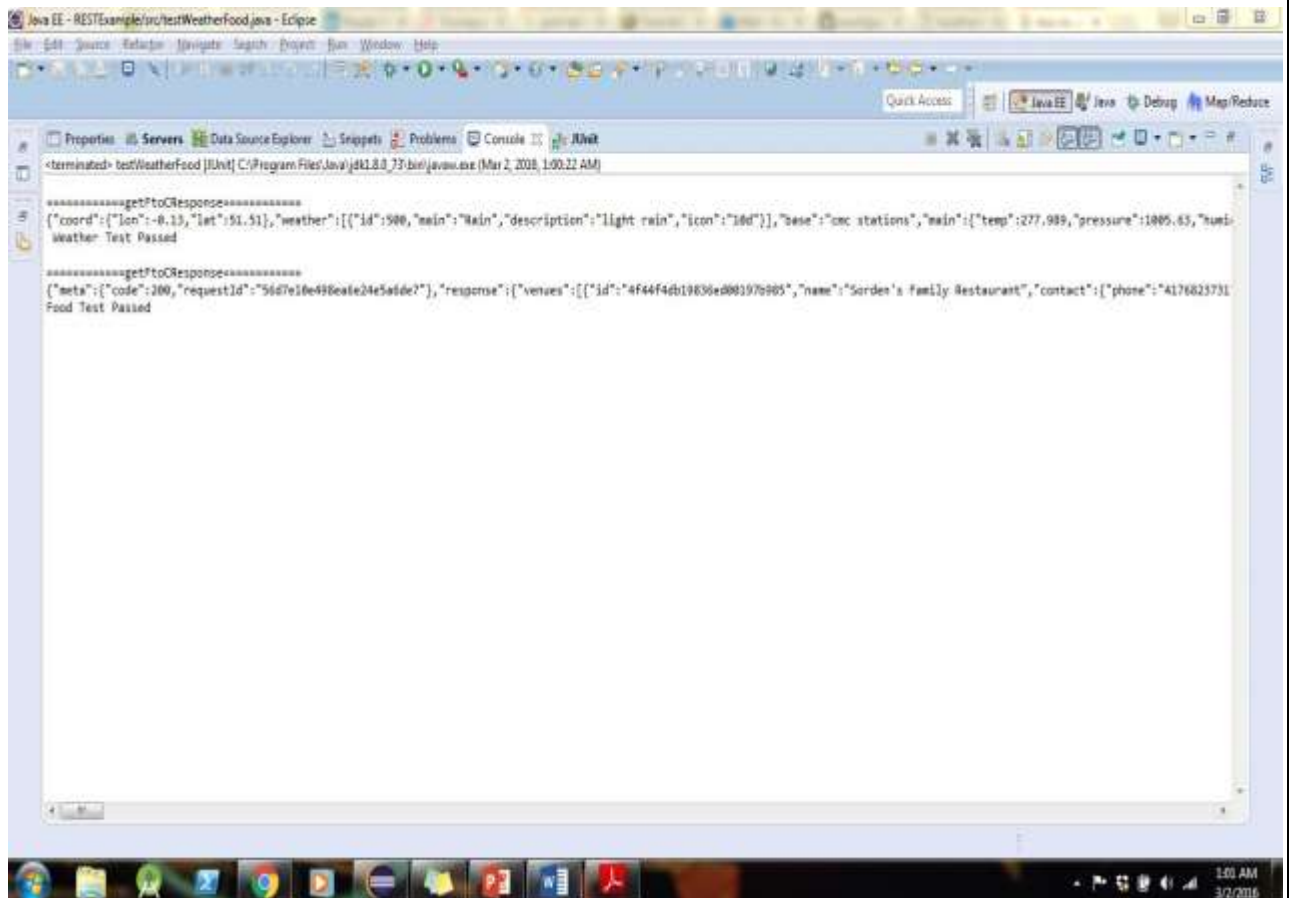




- Junit Test Case- Pass (Code with Output).



- JUnit Test Case Console Output



The screenshot shows the Eclipse IDE interface with the JUnit console output for a test case named `testWeatherFood`. The console output is as follows:

```
<terminated> testWeatherFood [JUnit] C:\Program Files\Java\jdk1.8.0_73\bin\java.exe (Mar 2, 2016, 1:00:22 AM)

*****getPtoCResponse*****
{"coord":{"lon":-8.15,"lat":51.51},"weather":[{"id":500,"main":"Rain","description":"light rain","icon":"10d"}],"base":"cmc stations","main":{"temp":277.989,"pressure":1005.65,"humid-
Weather Test Passed

*****getPtoCResponse*****
{"meta":{"code":200,"requestId":"56d7e10e498eae24e5e6de2"},"response":{"venues":[{"id":"4f44f4db19836ed801976905","name":"Sorden's Family Restaurant","contact":{"phone":"4176825731
Food Test Passed
```

**References:**

- [Stackoverflow.com](https://stackoverflow.com)
- [Tutorialspoint.com](https://www.tutorialspoint.com)
- Class tutorial