CS551 Advanced Software Engineering LAB ASSIGNMENT #6

Problem:

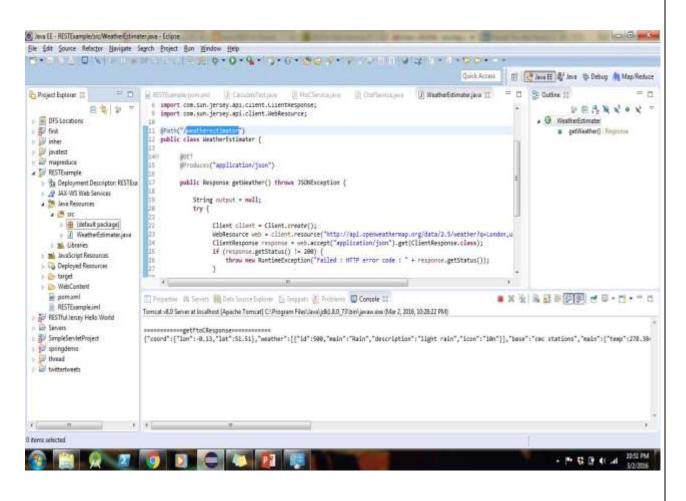
Implementing Web server proxy using integration of Weather and Foursquare REST Service and creating unit test cases for the same.

IDE: Eclipse Mars.

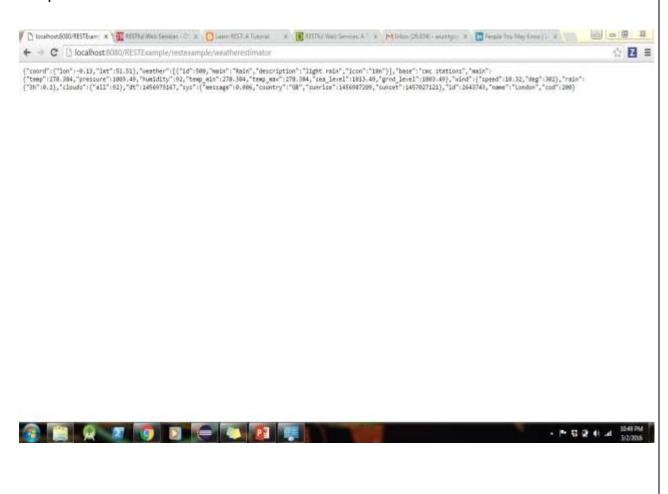
Server: Tomcat 8.0

ScreenShots:

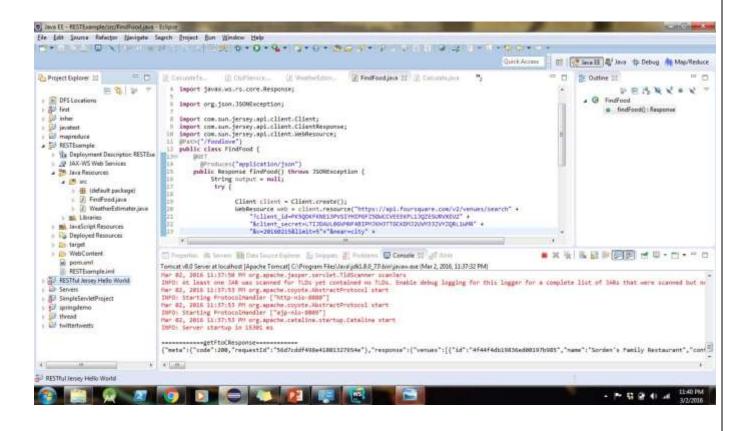
• Java Code for Weather Rest Service – Successful run.



• Output of Weather Json on browser.



Java Code for Four Square Rest API successful run.

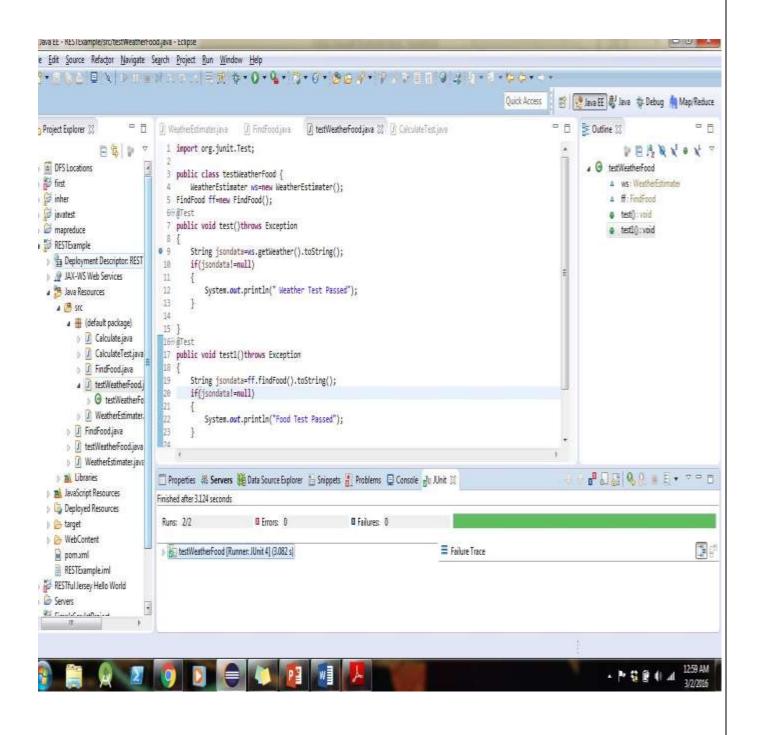


Output of Json data on browser for foursquare rest services.

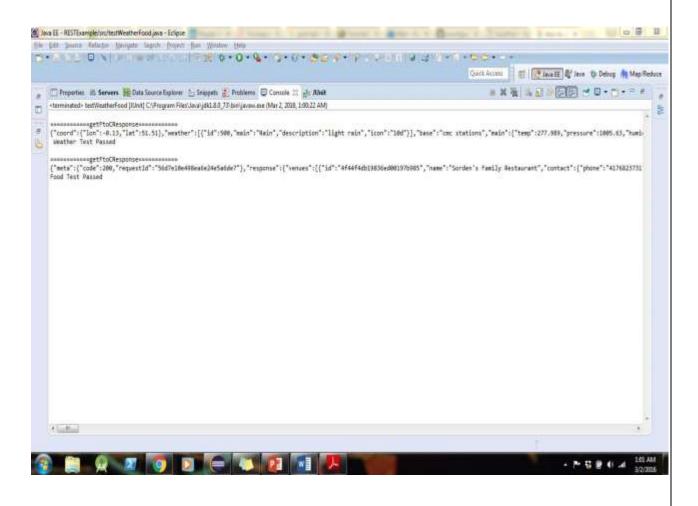
```
📑 locali X 📆 RESTI, X 🔁 Learn X 🚺 RESTI, X M Jobas X 📅 People X 🖰 Fours X Y 👸 junit t X 🔞 Tutor X 🔌 Mail - X 📑 cosin X 📑 CSSSL X 🖰 bosin X
                                                                                                                                                                                                                                      † Z ≡
          C | localhost 8080/RESTExample/restexample/foodlove
{"meta":{"code":200, "requestId": "56d7cddf490e41801317654e"}, "response":{"venues":[{"id": "4f44f4b19336ed00197b985", "name":"Sorden's Family Restaurant", "contact":
{"phone": "4176823731", "formattedPhone": "(417) 682-3731"), "location": {"address": "1103 Broadway
St", "lat":37.494359, "ing":94.276192, "postalCode": "64759", "cc": "US", "city": "Lamar", "state": "MO", "country": "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Lamar, MO 64759", "United States", "formattedAddress": ["1103 Broadway St", "Interest States"]
States"]},"categories":[{"id":"4d4b7105d754a86374d81259","name":"Food","pluralName":"Food","shortName":"Food","icon":
{"prefix":"https:\/\/ss3.4sqi.net\/ing\/categories_v2\/food\/default_","suffix":".png"},"primary":true}],"verified":false,"stats":
{"checkinsCount":0, usersCount":0, "tipCount":0}, "allowMenuUrlEdit":true, "specials":{"count":0, "items":[]}, "hereNow":{"count":0, "summary": "Nobody here", "groups":[]}, "referralId":"v-
1456983519", "venueChains":[]},{"id":"4d53ed8af9f9b60cf29528e6","name":"Blue Top Restaurant","contact":{[},"location":{"address":"65 SE 1st
Lm", "lat":37.49278268599238, "lng":-94.29877988784682, "postalCode": "64759", "cc": "U5', "city": "Lamar", "state": "MO", "country": "United States", "formattedAddress": ["65 SE 1st Lm", "Lamar, MO
64759", "United States"]}, "categories":[{"id": "4bf58ddRd4898Rd14e941735", "name": "American Restaurant", "pluralName": "American Restaurants", "shortName": "American", "icon":
{"prefix":"https:\/\/ss3.4sqi.net\/ing\/categories_v2\/food\/default_","suffix":".png"},"primary":true}],"verified":false,"stats":
 ("checkinsCount":92, "usersCount":32, "tipCount":3}, "allowMenuUrlEdit":true, "specials":{"count":0, "items":[]}, "hereMow":{"count":0, "summary":"Mobody here", "groups":[]}, "referralId":"v-
1456983519", "venueChains":[]], ("id":'4f32c65319836c91c7f92ab5", "name":"Hillcrest Lanes and Restaurant", "contact":("phone":"4176825829", "formattedPhone":"(417) 682-5829"), "location":
["address":"9 NE 1st Ln","lat":37.500097,"lng":-94.297452,"postalCode":"64759","cc":"V5","city":"Lamar","state":"N0","country":"United States","formattedAddress":["9 NE 1st Ln","Lamar, N0
64759","United States"]],"categories":[{"id":"46f58dd8d48968dle4931735","name":"Bowling Alley","pluralName":"Bowling Alleys","shortName":"Bowling Alleys","icon":
{"prefix":"https:///ss3.4sqi.net//ing//categories_v2//arts_entertainment//bowling_","suffix":".png"},"primary":trve}],"verified":false,"stats":
 ("checkinsCount":1,"usersCount":1,"tipCount":0},"specials":{"count":0,"items":[]},"hereNou":{"count":0,"summary":"Nobody here","groups":[]},"referralId":"v-1456983519","venueChains":[]},
"id":"4b89b651F964a5200F4d32e3","name":"Sharon's Family Restaurant","contact":{"phone":"4173949991","formattedPhone":"(417) 394-9991"),"location":{"address":"404 North 4th
Street", "crossStreet": "4th Street and Huy. K", "lat":37.34000129071852, "lng":-94.29758548736572, "postalCode": "64755", "cc": "U5", "city": "Jasper", "state": "NO", "country": "United
States", "formattedAddress":["404 North 4th Street (4th Street and Huy. X)", "Jasper, MO 64755", "United States"]}, "categories":[{"id": "46f58dd8d48988d14e941735", "name": "American
Restaurant", "pluralName": "American Restaurants", "shortName": "American", "icon":
{"pnefix":"https:\/\/ss3.4sqi.net\/ing\/categories v2\/food\/default ","suffix":".png"},"primary":true}],"verified":false,"stats":
{"checkinsCount":70, "usersCount":10, "tipCount":1}, "allow|enubrlEdit":true, "specials":{"count":0, "items":[], "hereNow":{"count":0, "summary": Nobody here", "groups":[]], "referralId":"v-
1456983519", "venueChains":[]},["id":"4c75a8e52db5236a1c9cbd79", "name":"Maria's Mexican Restaurant", "contact":("phone":"4176248882", "formattedPhone":"(417) 624-8882", "location":
{"address":"1901 E 30nd St Ste 10", "lat":37.05492245117445, "lng":-94.49461639293976, "postalCode":"64804", "cc":"Us", "city":"loglin", "state": "VO", "country": "United
States", "formattedAddress":["1901 E 32nd St Ste 10","loplin, NO 64804", "United States"]}, "categories":[4"id":"4bf58dd864B988dic1941735", "name": "Mexican Restaurant", "pluralName": "Mexican
Restaurants", "shortName": "Mexican", "icon": ["prefix": "https:\/\/ss3.4sqi.net\/img\/categories_v2\/food\/mexican_", "suffix": ".png"}, "primary":true}], "verified":false, "stats":
{"checkinsCount":935, "usersCount":985, "tipCount":28}, "url":"http:\/\/mariasmexicancantina.com", "allowMenU0rlEdit":true, "specials":{"count":0,"items":[]}, "hereMow":
{"count":0,"summary":"Nobody here","groups":[]},"referralId":"-1456983519","venueChains":[]]),"geocode":{"what":"","where":"city","feature":{"cc":"US", "name":"City
Township", "displayName": "City Township, NO, United States", "matchedName": "City, NO, United States", "highlightedName": "Kb>City(\/b>, NO, United
States", "woeType":10, "id": "geonameid:4381317", "Longid": "72057594042309253", "geometry": ("center": ("lat":37.49445, "lng":-94.27845), "bounds": ("ne":
{"lat":37.514984,"lng":-94.1401259999999},"sv":("lat":37.472955,"lng":-94.317441}}}},"parents":[]}}
```



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



• Junit Test Case Console Output



References:

- Stackoverflow.com
- Tutorialspoint.com
- Class tutorial