Second Assignment Report

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Introduction

- In this assignment we created a java app to get weather information of given city by connecting to a weather API.
- We learned how to use JSON and process its data in java. We used gradle and Git and we learned how to work with them.
- For this project I designed some methods and called them all in the main class.

Design and Implementation

- I designed 4 methods and 2 of them were extra and were not a part of assignment. Then I called all the methods and used them to get the data we need.
- In getTemprature I used JSONObject to get weather's temperature in celsius.
- In getHumidity I used JSONObject to get weather's humidity.

Then I used some extra methods "getwindspeed" and "getwinddirection".

1. In getwindspeed I used JSONObject to get the wind's speed (mile per hour).
2. In getwinddirection we can get some data about wind's direction.

Testing and Evaluation

I used getWeatherData(city) in String weatherData and called it in each method and after that I printed them. City and direction are strings. Temperature and speed are double variables and humidity is integer. I believe my algorithm was effective and I tried to use all of the wanted things in assignment.

Conclusion

- This assignment was useful because it helped me to understand how to use a JSON library and connect to an API. I learned how to use gradle and it helped me to get familiar with IntelliJ IDEA more than before.
- I think we could have another method "callAllMethods" to be called at the end instead of calling the methods one by one.