Report

What does the getWeatherData do step by step?

First aip is an interface for programs to communicate with each other

make a URL object that holds our AIP URL address. Then make a connection object and open the connection with the server and put the way of transport to “get” in the final, the bufferReader object store the data of that connection. inputstream sent to the stream reader and also buffer just like scanner obj, we use a while loop to read data from buffer with readLine() convert multi-line data to one line and then return it.

Whenever a problem occurs in Wherever of these functions it goes in the catch block and then returns null.

What is JSON?

JSON (JavaScript Object Notation, pronounced /ˈdʒeɪsən/; also /ˈdʒeɪˌsɒn/) is an open standard file format and data interchange format that uses human-readable text to store and transmit data objects consisting of attribute–value pairs and arrays (or other serializable values). It is a common data format with diverse uses in electronic data interchange, including that of web applications with servers.

is said by wiki. But how can we use it?

It is similar to dict in phyton and hash set in java but it was sent with string format and we must convert this string to JSON obj to use it. The JSON obj has methods that return value by getting keys like get(), getInt(), and getDouble(), …..

The JSON string value can have some types in it like int, float, string, list, or even another JSON string but the key must be a string.

In this way when we have a key we easily access the data that store in JSON obj.

In this program, a function is provided for each task.

Functions have to get<name>() pattern extract data from JSON obj and return them in basic types and have a meaningful name and don’t do a sophisticated thing so it is obvious to understand them 😊.

For output in the table shape, we have an output Terminal function that prints in the terminal which uses setw(). it gets a (double, string, or int) type and prints it with 15 character length.