

Documentation of 1st project for IPK 2018/2019
Peter Horňák
(xhorna14)

1 Description

Program is client interface for OpenWeatherMap, that is receiving weather data, using sockets and http requests and parsing them into human readable format. Program is implemented in Python3.

2 Launching

```
make build  
make run api_key=<key> city=<city>
```

2.1 Input:

Program is not expecting any input.

2.2 Output:

Output is information about actual weather in entered city. Output is in following format:

```
City  
Weather description  
Temperature(°C)  
Humidity(%)  
Pressure(hPa)  
Wind speed(km/h)  
Wind deg
```

2.3 Parameters:

Script is expecting parameters:

api_key=<key> – Valid app id generator for each user.

city=<city> – Valid city name.

3 Implementation

At first script loads parameters entered by user. Then socket is created and script finds ip address by hostname. After that, connection is established and request is sent. Then it loads 1024 bytes of received data in utf-8 encoding, until whole response is loaded. After successful response from server, script extracts data from json format, if data are not found, “not found” message is printed.