

The objective of this task is to test some simple coding and problem solving ability. There are no right or wrong solutions - we would just like to see how you solved it using your chosen language.

The task is as follows:

Given the following JSON weather report for Cape Town.

```
{ "details" : { "location": "Cape Town" , "lastModified": "2016-05-17"}, "day1" : { "high": 30 , "low" : 13, "condition" : "Clear"}, "day2" : { "high": 19 , "low" : 12, "condition" : "Partly Cloudy"}, "day3" : { "high": 17 , "low" : 8, "condition" : "Partly Cloudy"}, "day4" : { "high": 19 , "low" : 11, "condition" : "Clear"}, "day5" : { "high": 21 , "low" : 11, "condition" : "Partly Cloudy"} }
```

1. Read from the JSON file included and display on a Webpage the following:
  - a) Display each day's High and Low temperatures.
  - b) Out of all the min/max temperature values in the data set, display the average High Temperature, and the average Low Temperature for the 5 days. This needs to be calculated and not hard coded.
  - c) Display the temperatures that don't appear in the combined high and low dataset.
    - a. Eg given [12,10,11,8,15,18]
    - b. The missing temperatures are: [9,13,14,16,17]
  - d) Dynamically Display an image corresponding to each of the conditions in the above example. E.g. Sun for Clear, Cloud for Partly Cloudy.....
  - e) Graph the High and Low Temperatures for the week on a graph.

Bonus steps:

Use a Live Weather API instead of the JSON provider allowing the user to enter any City

Please contact me if you have any questions you are allowed to use any Javascript Library

Example Javascript Graphing Library to use:

<http://www.highcharts.com/>