

In this lab you will use the openweathermap API to get information about differences in the length of a day from one location to another.

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### Part 1:

Your task will be to build a python function which resolves the time of day for sunrise and sunset from the API.

```
def getDayLight(zip):  
    #code here
```

The function should take a zipcode as argument and return a dictionary in the following format:

```
{  
    'status': 'ok',  
    'rise': '06:11:23',  
    'set': '19:15:12',  
    'riseunix': 15432211,  
    'setunix': 15433111,  
}
```

The returned dictionary shows a number of fields.

field	values	notes
status	ok,error,none	Status of the request
rise	Sunrise time as HH:MM:SS	Not shown if status != ok
set	Sunset time as HH:MM:SS	Not shown if status != ok
riseunix	Sunrise time as raw unix timestamp	Not shown if status != ok
setunix	Sunset time as raw unix timestamp	Not shown if status != ok

Use unit tests for your function to ensure it handles all errors and exceptions before continuing.

### Part 2:

For part 2 you will use the function getDayLight() to read all the zipcodes from the file here:

<http://codeunity.net/uploads/ziplist.csv>

You should create a new file in which the start and end fields are populated with data from the API. For example:

zip	start	end
33018	6:34:12	19:16:16

You should turn in your python script which reads from ziplist.csv.