Using the GeoJSON API

In this program you will use a GeoLocation lookup API modelled after the Google API to look up some universities and parse the returned data.

This course uses a third-party tool, Using the GeoJSON API, to enhance your learning experience. The tool will reference basic information like your name, email, and Coursera ID.

☑ I, **Ishaan Narula**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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Done

Welcome Ishaan Narula from Using Python to Access Web Data

Calling a JSON API

In this assignment you will write a Python program somewhat similar to http://www.py4e.com/code3/geojson.py ↗. The program will prompt for a location, contact a web service and retrieve JSON for the web service and parse that data, and retrieve the first **place_id** from the JSON. A place ID is a textual identifier that uniquely identifies a place as within Google Maps.

API End Points

To complete this assignment, you should use this API endpoint that has a static subset of the Google Data:

```
http://py4e-data.dr-chuck.net/json? ↗
```

This API uses the same parameter (address) as the Google API. This API also has no rate limit so you can test as often as you like. If you visit the URL with no parameters, you get "No address..." response.

To call the API, you need to include a **key=** parameter and provide the address that you are requesting as the **address=** parameter that is properly URL encoded using the **urllib.parse.urlencode()** function as shown in http://www.py4e.com/code3/geojson.py ↗

Make sure to check that your code is using the API endpoint is as shown above. You will get *different* results from the **geojson** and **json** endpoints so make sure you are using the same end point as this autograder is using.

Test Data / Sample Execution

You can test to see if your program is working with a location of "South Federal University" which will have a **place_id** of "ChIJy0Uc1Zmym4gR3fmAYmWNuac".

```
$ python3 solution.py
Enter location: South Federal University
Retrieving http://...
Retrieved 2433 characters
Place id ChIJy0Uc1Zmym4gR3fmAYmWNuac
```

Turn In

Please run your program to find the **place_id** for this location:

```
Universidade Federal da Paraiba
```

Make sure to enter the name and case exactly as above and enter the **place_id** and your Python code below. Hint: The first seven characters of the **place_id** are "ChIJ0QS ..."

Make sure to retreive the data from the URL specified above and **not** the normal Google API. Your program should work with the Google API - but the **place_id** may not match for this assignment.

place_id: [   ] | Submit Assignment |

Python code:

Select Language | ▼