In this assignment you will write a Python program somewhat similar to [http://www.py4e.com/code3/geojson.py](https://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.

import urllib.request, urllib.parse, urllib.error

import json

import ssl

api\_key = False

# If you have a Google Places API key, enter it here

# api\_key = 'AIzaSy\_\_\_IDByT70'

# https://developers.google.com/maps/documentation/geocoding/intro

if api\_key is False:

api\_key = 42

serviceurl = 'http://py4e-data.dr-chuck.net/json?'

else :

serviceurl = 'https://maps.googleapis.com/maps/api/geocode/json?'

# Ignore SSL certificate errors

ctx = ssl.create\_default\_context()

ctx.check\_hostname = False

ctx.verify\_mode = ssl.CERT\_NONE

while True:

address = input('Enter location: ')

if len(address) < 1: break

parms = dict()

parms['address'] = address

if api\_key is not False: parms['key'] = api\_key

url = serviceurl + urllib.parse.urlencode(parms)

print('Retrieving', url)

uh = urllib.request.urlopen(url, context=ctx)

data = uh.read().decode()

print('Retrieved', len(data), 'characters')

try:

js = json.loads(data)

except:

js = None

#print(js['results'][0]['place\_id'])

place\_id = js['results'][0]['place\_id']

print('place\_id:', place\_id)