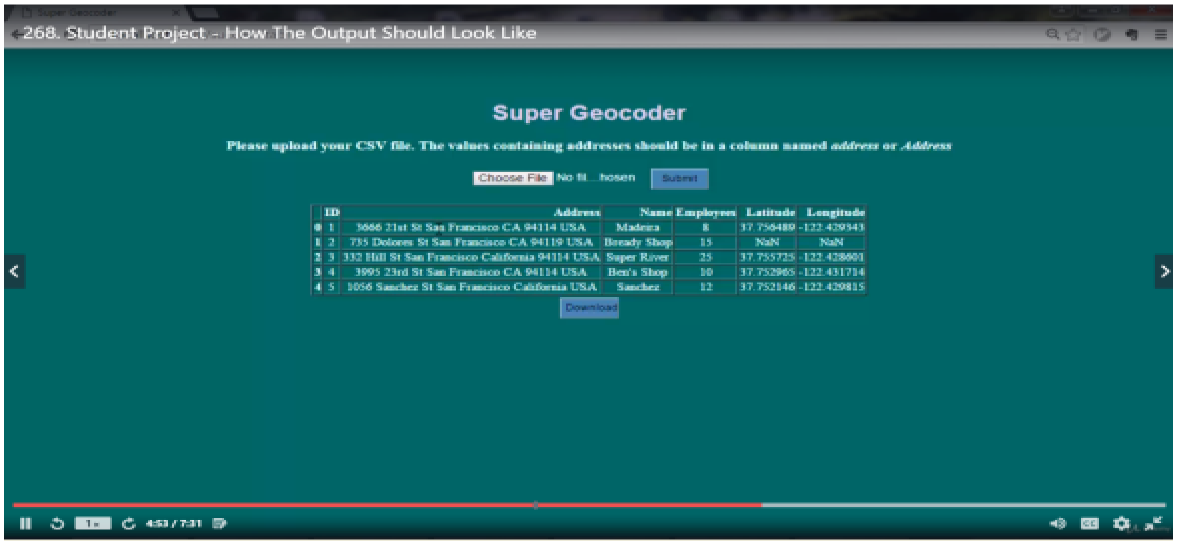
DAILY ASSESSMENT FORMAT

Date:	06-06-2020	Name:	Roshni A B
Course:	Python	USN:	4AL17EC080
Topic:	geocoding	Semester & Section:	6th sem 'B' sec
Github Repository:	Roshni-online		

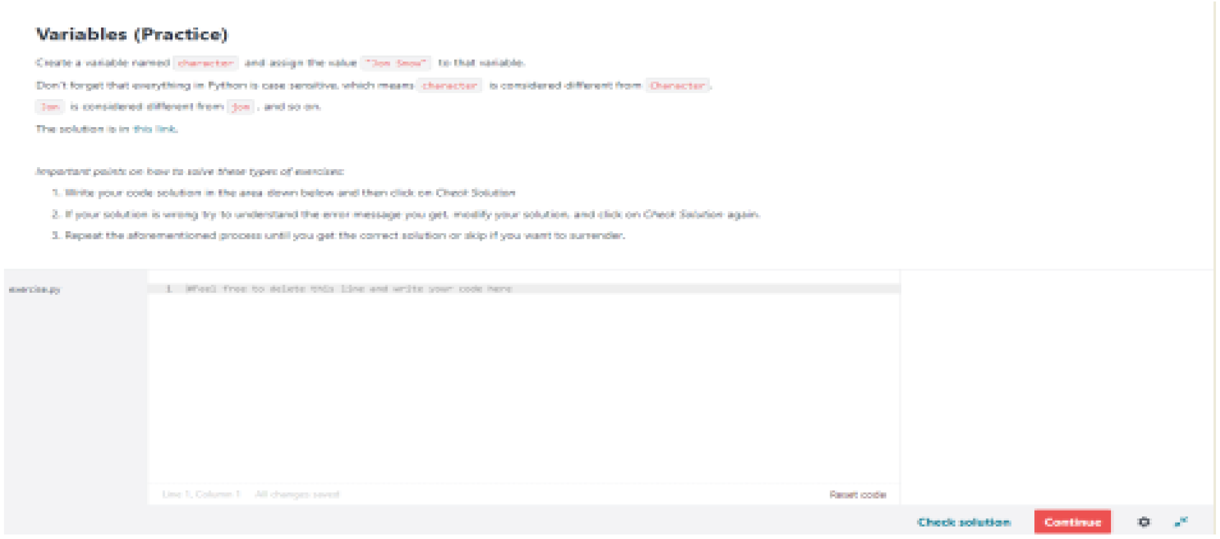
Image of session



Super Geocoder

Please upload your CSV file. The values containing addresses should be in a column named *address* or *Address*

	ID	Address	Name	Employees	Latitude	Longitude
0	1	3666 21st St San Francisco CA 94114 USA	Madrona	8	37.756489	-122.429343
1	2	735 Dolores St San Francisco CA 94119 USA	Bready Shop	15	NaN	NaN
2	3	332 Hill St San Francisco California 94114 USA	Super River	25	37.755725	-122.428601
3	4	3995 23rd St San Francisco CA 94114 USA	Ben's Shop	10	37.752965	-122.431714
4	5	1056 Sanchez St San Francisco California USA	Sanchez	12	37.752146	-122.429815



Variables (Practice)

Create a variable named `character` and assign the value `"Jon Snow"` to that variable.

Don't forget that everything in Python is case sensitive, which means `character` is considered different from `Character`. `Jon` is considered different from `jon`, and so on.

The solution is in this link.

Important points on how to solve these types of exercises:

1. Write your code solution in the area down below and then click on Check Solution
2. If your solution is wrong try to understand the error message you get, modify your solution, and click on Check Solution again.
3. Repeat the aforementioned process until you get the correct solution or skip if you want to surrender.

```
#Feel free to delete this line and write your code here
```

Geocoding request and response (latitude/longitude lookup) The following example requests the latitude and longitude of "1600 Amphitheatre Parkway, Mountain View, CA", and specifies that the output must be in JSON format.you can test this by entering the URL into your web browser (be sure to replace YOUR_API_KEY with your actual API key). The response includes the latitude and longitude of the address.

View the developer's guide for more information about building geocoding request URLs and available parameters and understanding the response.

Below is a sample geocoding response, in JSON:

```
{
    "results" : [
    {
        "address_components" : [
        {
            "long_name" : "1600",
            "short_name" : "1600",
            "types" : [ "street_number" ]
         },
         {
             "long_name" : "Amphitheatre Parkway",
             "short_name" : "Amphitheatre Pkwy",
             "types" : [ "route" ]
          },
         {
            "long_name" : "Mountain View",
            "short_name" : "Mountain View",
            "types" : [ "locality", "political" ]
         },
        {
            "long_name" : "Santa Clara County",
           "short_name" : "Santa Clara County",
           "types" : [ "administrative_area_level_2", "political" ]
         },
        {
           "long_name" : "California",
           "short_name" : "CA",
           "types" : [ "administrative_area_level_1", "political" ]
         },
        {
            "long_name" : "United States",
            "short_name" : "US",
             "types" : [ "country", "political" ]
          },
          {
             "long_name" : "94043",
             "short_name" : "94043",
                "types" : [ "postal_code" ]
             }
          ],
           "formatted_address" : "1600 Amphitheatre Pkwy, Mountain View, CA 94043, USA",
            "geometry" : {
            "location" : {
            "lat" : 37.4267861,
            "lng" : -122.0806032
          },
          "location_type" : "ROOFTOP",
          "viewport" : {
            "northeast" : {
            "lat" : 37.4281350802915,
            "lng" : -122.0792542197085
           },
             "southwest" : {
             "lat" : 37.4254371197085,
             "lng" : -122.0819521802915
           }
        }
     },
     "place_id" : "ChIJtYuu0V25j4ARwu5e4wwRYgE",
     "plus_code" : {
     "compound_code" : "CWC8+R3 Mountain View, California, United States",
     "global_code" : "849VCWC8+R3"
   },
   "types" : [ "street_address" ]
  }
  ],
  "status" : "OK"
  }
```

Reverse geocoding request and response (address lookup) The following example requests the address corresponding to a given latitude/longitude in Brooklyn, NY, USA. It specifies that the output must be in JSON format. You can test this by entering the URL into your web browser (be sure to replace ‘YOUR_API_KEY’ with your actual API key). The response includes a human-readable address for the latitude and longitude location.

View the developer's guide for more information about building reverse geocoding request URLs and available parameters and understanding the response.

Below is a sample reverse geocoding response, in JSON:

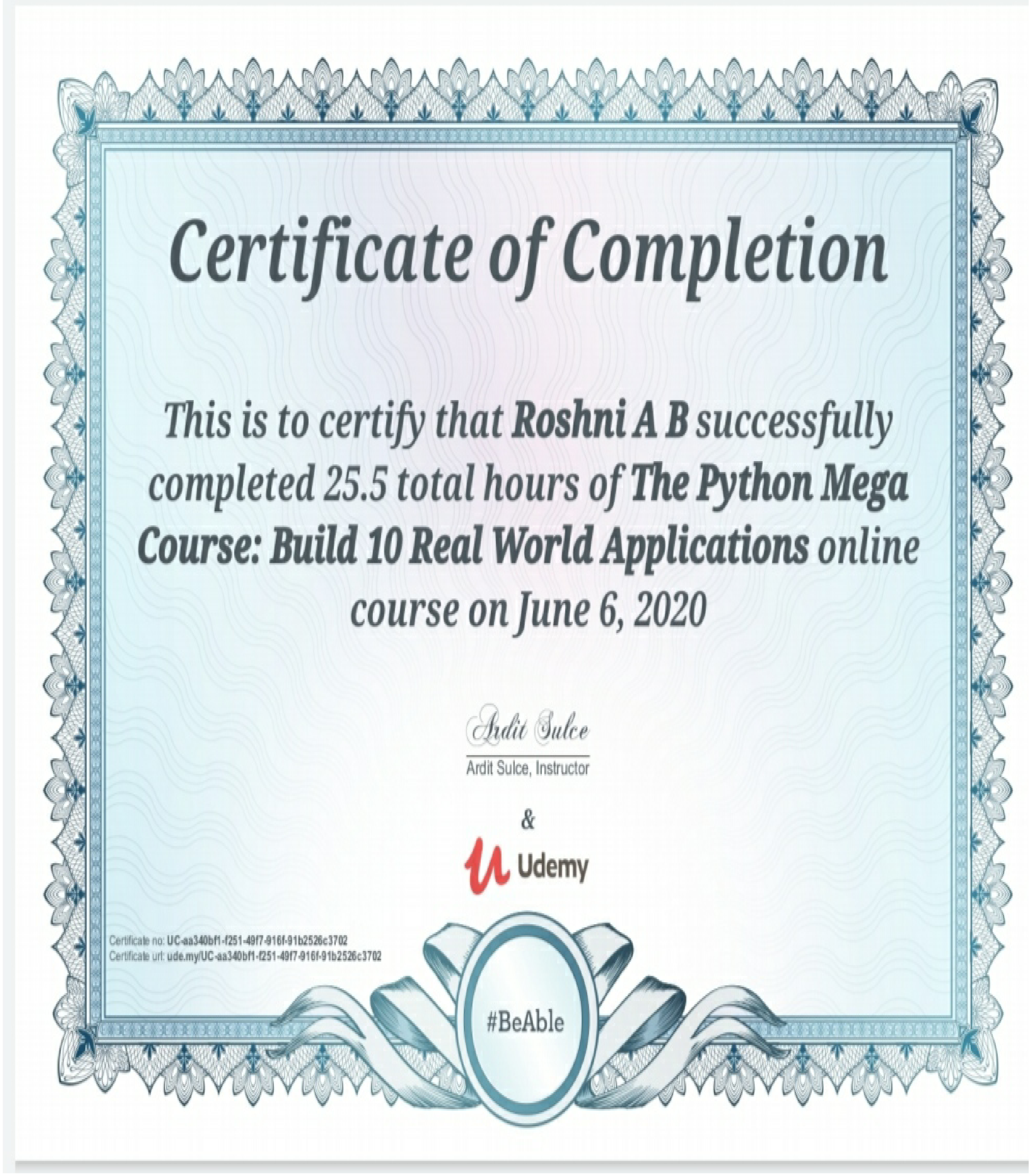
```
{
    "plus_code" : {
   "compound_code" : "P27Q+MC New York, NY, USA",
   "global_code" : "87G8P27Q+MC"
},
  "results" : [
     {
        "address_components" : [
           {
              "long_name" : "279",
              "short_name" : "279",
              "types" : [ "street_number" ]
          },
          {
             "long_name" : "Bedford Avenue",
             "short_name" : "Bedford Ave",
            "types" : [ "route" ]
         },
         {
            "long_name" : "Williamsburg",
           "short_name" : "Williamsburg",
           "types" : [ "neighborhood", "political" ]
          },
          {
                "long_name" : "Brooklyn",
               "short_name" : "Brooklyn",
              "types" : [ "political", "sublocality", "sublocality_level_1" ]
         },
         {
               "long_name" : "Kings County",
              "short_name" : "Kings County",
              "types" : [ "administrative_area_level_2", "political" ]
        },
        {
              "long_name" : "New York",
             "short_name" : "NY",
              "types" : [ "administrative_area_level_1", "political" ]
        },
        {
             "long_name" : "United States",
             "short_name" : "US",
             "types" : [ "country", "political" ]
       },
        {
             "long_name" : "11211",
             "short_name" : "11211",
              "types" : [ "postal_code" ]
         }
      ],
     "formatted_address" : "279 Bedford Ave, Brooklyn, NY 11211, USA",
      "geometry" : {
          "location" : {
         "lat" : 40.7142484,
        "lng" : -73.9614103
        },
        "location_type" : "ROOFTOP",
        "viewport" : {
        "northeast" : {
           "lat" : 40.71559738029149,
           "lng" : -73.9600613197085
         },
        "southwest" : {
       "lat" : 40.71289941970849,
        "lng" : -73.96275928029151
       }
    }
 },
 "place_id" : "ChIJT2x8Q2BZwokRpBu2jUzX3dE",
 "plus_code" : {
  "compound_code" : "P27Q+MC Brooklyn, New York, United States",
   "global_code" : "87G8P27Q+MC"
  },
  "types" : [
               "bakery",
                "cafe",
               "establishment",
               "food",
               "point_of_interest",
              "store"
              ]
        },


  ... Additional results truncated in this example[] ...


  ],
"status" : "OK"
```

Start coding with our client libraries Client libraries make developing with the Google Maps web service APIs easier by providing simple, native implementations of common tasks, such as authentication, request throttling and automatic retry. The Geocoding API is available in the Java Client, Python Client, Go Client and Node.js Client for Google Maps Services.

Authentication, quotas, pricing, and policies Authentication To use the Geocoding API, you must first enable the API and obtain the proper authentication credentials. For more information, see Get Started with Google Maps Platform.



Certificate of Completion

This is to certify that ***Roshni A B*** *successfully completed 25.5 total hours of* ***The Python Mega Course: Build 10 Real World Applications*** *online course on June 6, 2020*

Ardit Sulce

Ardit Sulce, Instructor

&

Udemy

Certificate no: UC-aa340bf1-f251-49f7-916f-91b2526c3702
Certificate url: ude.my/UC-aa340bf1-f251-49f7-916f-91b2526c3702

#BeAble