

Task 3: Integration with a Google API

The provided code is a Python script that utilizes the Google Maps Geocoding API to convert a physical address into its corresponding latitude and longitude coordinates. It starts by defining an API key for authentication, specifying the address to be geocoded, and setting up the API endpoint URL. The script sends a GET request to the API with the address and API key as parameters, then checks the response status. If the request is successful, it parses the JSON response, extracts the coordinates, and prints them along with the original address. In case of errors, it provides informative error messages. This code serves as a practical example of how to interact with web APIs for geospatial data retrieval in Python.