Description of My Creative App

The "International Space Station (ISS) App" is an interactive Python console application that allows user to track the current location of the ISS and determine its proximity to user-specified location. My program fetches the current latitude and longitude coordinates of the ISS using the free Open Notify API in real-time.

User can enter the name of a city, country of their choice to check the ISS's distance from their input location. My app calculates the approximate distance between these by using a creative element (the Haversine formula), and it stores the results in a dictionary which is written to a JSON file. The app also converts in real-time the longitude and latitude data into the name of the country and outputs: "The ISS is currently flying over X country."
This console app runs in a continuously allowing user to interact with it multiple times without restarting. The program ends by the user entering 'n' which breaks the while loop and exits the application.

Creative Problem:
Please, note that there is a limit to the number of requests for the geopy (Nominatim) API. The program generally works, but after frequent use the IP might get flagged as IP or spam, so it might show an error, something like key „address" does not exist in the dictionary „location", it is mainly because the API returns an empty response.

Gina Rubik