

Data Automation Intern Case Study

Python exercise (2-3 hours)

Objective

Write a Python script that prompts the user for a list of bus stations and generates a map of the resulting bus route.

You should send us the script **at least 24 hours** before the restitution.

Instructions

Your Python script should:

- Prompt the user to input a list of bus stations, each containing:
 - The **station name**
 - The **GPS coordinates** (latitude and longitude)
- Generate a map displaying the route through the entered stations, in the order they were provided

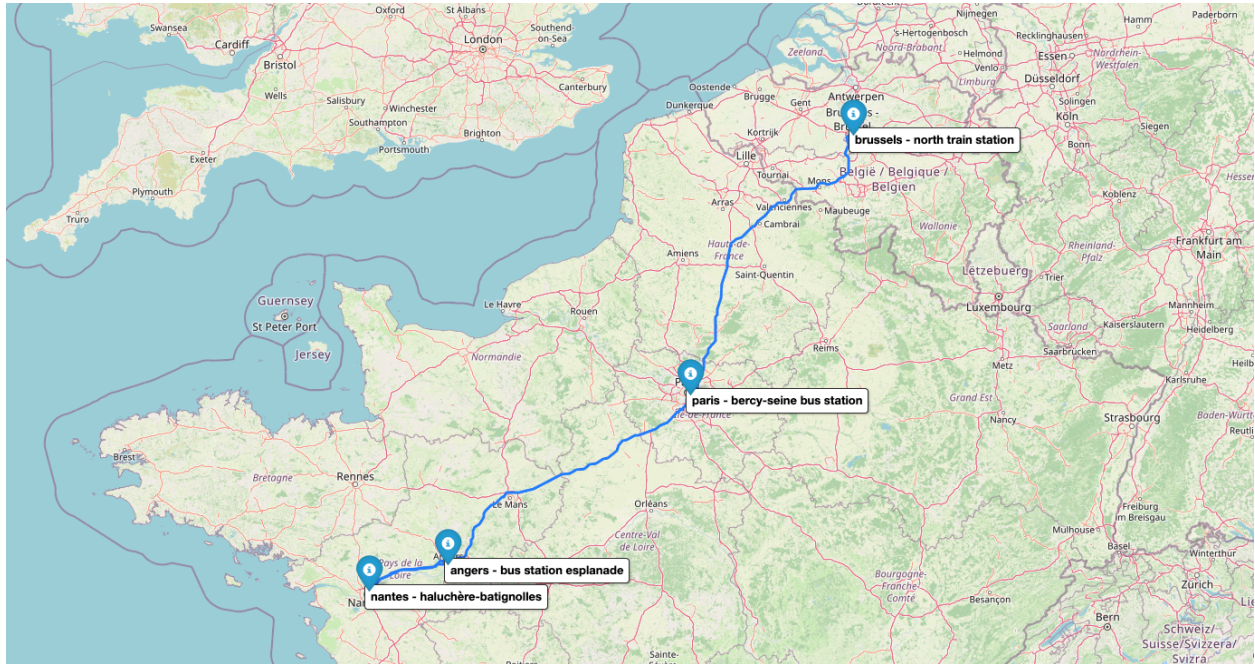
Feel free to go beyond the basic requirements, we encourage you to:

- Add tests
- Include error handling and validation
- Implement any improvements you think are useful or interesting
- Submit the code via GitHub repository (access to be shared with interviewers)

To help you get started, find below some example stations with real GPS coordinates. These are just examples, your script should accept any number of stations, with any valid latitude and longitude.

station_name	latitude	longitude
paris - bercy seine bus station	48.83568689	2.380160747
lyon - perrache bus station	45.749711	4.826788
marseille - saint-charles bus station	43.304179	5.379868
lille - europe train station	50.638638	3.076491
bordeaux - belcier bus stop	44.82271757	-0.5546906559

An example output map is shown below, with a route passing through Angers → Nantes → Paris → Brussels.



About your script

- Use Python to complete the assignment.
- No action should be needed before running your code. Otherwise, please provide documentation to initialize your project.
- The code should be written like it is executed every day.
- Your code is working whatever the date and the number of times we run the program.
- Your code is well documented and organized

Good luck!
