

- a.** Target grade level: 3
- b.** Specification: This program is a very impractical locator for all the Prisma stores in Finland. By inputting the name of a valid supermarket, the user will receive its co-ordinates, according to that store's pin on Google Maps. The store co-ordinates are stored in a JSON file.
- c.** Test case 1: input = Zeppelin, output = The coordinates of Prisma Zeppelin are (64.901687, 25.538063). Test case 2: input = Haaga, output = Sorry, there was no Prisma found at Haaga.
- d.** The code opens the JSON data file with a `with` statement, and is therefore closed automatically. Although the input/output cycle is run continuously until the program is exited, the data is only loaded once, at the start of the program.

Explanation of the data format (dictionaries and JSON)

The data is stored in a dictionary format in a JSON file, which is a standard file type used to store data. A dictionary has two types of data: keys and values. The program checks whether the user's input matches one of the store names stored before the colon in the file. If a match is found, the program reads the information stored after the colon, which, in this program, is a list containing the latitude and longitude of the store. The program then assigns them in order to the variables `latitude` and `longitude`.