Answer Documentation

Based on the censor points the kml file have 9501 coordinates points. To find the total distance and the incorrect coordinates we need to read the coordinates in the python file. So, for that install the pykml package using **pip install pykml**,in addition to that need the math library too.

To set up the environment and run the script, First open the folder that have a environment and open the command prompt in the file location, then activate the environment using the **command env\Scripts\activate,** after that thethe file is ready to run. To run use **py distance.py** in the command prompt.

The filtering logic that my solution is based on the average distance does it travelled in one minute. For that we take the first 2 coordinate points and then calculate the distance between them, when I research I got that the censors track points very from 10 sec to 5 mins so that take the time as a average of one minute and then the distance covered by one minute to a 1 km, so that the if we calculate the distance between 2 points if the distance id greater that 1 km then skip that points as the incorrect points and move to the next point. That is the logic I applied here. The **get\_distance()** function is used to calculate the distance between the 2 points.