Zou Chenyang

In the calculation of carbon emission from business travel, I mainly calculate the international flight they are going to take because this is the main part of greenhouse gas emission. At first, I search the internet for the carbon emission factors for flight. Then as what I did before, I choose to use the Google Map encoding API to transfer the name of the airports into their longitude and latitude, so later I can use the Haversine Formula to calculate the distance between different airports.

The default start airport is Singapore Changi Airport. You can enter the target airports and the number of people to each airport to calculate the total greenhouse gas emission for many people's trips to different destinations at the same time.

In the code, I use Beijing Capital International Airport and Shanghai Pudong International Airport with multiple people as examples to show the calculation of emission.