**SOURCE CODE**

**import requests**

**import smtplib**

**# API key**

**#api\_file = open("api key.txt", "r")**

**api\_key = "jcBNLNMF5Yee3yJJK09RRWuha5Ig4"**

**#api\_file.close()**

**# home address input**

**home = input("Enter a current address\n")**

**# work address input**

**work = input("Enter a work address\n")**

**# base url**

**url = "https://api.distancematrix.ai/maps/api/distancematrix/json?"**

**# get response**

**r = requests.get(url + "origins=" + home + "&destinations=" + work + "&key=" + api\_key)**

**# return time as text and as seconds**

**time = r.json()["rows"][0]["elements"][0]["duration"]["text"]**

**seconds = r.json()["rows"][0]["elements"][0]["duration"]["value"]**

**# print the travel time**

**print("\nThe total travel time from home to work is", time)**

**#code for mailing**

**# check if travel time is more than .5 hour**

**if (seconds < 1800):**

**print("you have enough time.")**

**if (seconds > 1800):**

**# email constraints**

**sender = "sendermail@gmail.com"**

**recipient = "recipientmail@gmail.com"**

**subject = "Got stuck in traffic"**

**message = "Good Morning sir,\n\nSorry, I can't make it on time today."**

**# format email**

**email = "Subject: {}\n\n{}".format(subject, message)**

**# get sender password**

**# password\_file = open("password.txt", "r")**

**# password = password\_file.readline()**

**# password\_file.close()**

**# creates SMTP session**

**s = smtplib.SMTP("smtp.gmail.com", 587)**

**# start TLS for security**

**s.starttls()**

**# authentication**

**s.login(sender, "password123.")**

**# sending the mail**

**s.sendmail(sender, recipient, email)**

**# terminating the session**

**s.quit()**

**# success message**

**print("\nSuccessfully sent an email to", recipient, "\n since the travel time was too long!")**