

# Airmine

File Assignment contains 3 files

- 1) Airmine .ipynb
- 2) AirMine.py
- 3) Place.csv

## **Airmine.ipynb**

Contains all the code with detailed explanation on code

## **Airmine.py**

Would use to run the command line program

## **Place.csv**

Is the csv file the already contains Name, Latitude, Longitude

Please see the picture provided below for running the application

In Command prompth

Find navigate to the file that contains “Assignment”

```
Command Prompt
Microsoft Windows [Version 10.0.22621.1105]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Faisal>cd onedrive

C:\Users\Faisal\OneDrive>cd desktop

C:\Users\Faisal\OneDrive\Desktop>cd assignment

C:\Users\Faisal\OneDrive\Desktop\Assignment>dir
Volume in drive C is Windows
Volume Serial Number is 98D6-936B

Directory of C:\Users\Faisal\OneDrive\Desktop\Assignment

2023-01-19  14:18    <DIR>          .
2023-01-19  14:18    <DIR>          ..
2023-01-19  14:16             7 758 Airmine.ipynb
2023-01-19  14:18             2 655 AirMine.py
2023-01-19  10:11             296 place.csv
                3 File(s)              10 709 bytes
                2 Dir(s)  244 675 424 256 bytes free

C:\Users\Faisal\OneDrive\Desktop\Assignment>
```

When in the Assignment folder write

**python airmine.py**

This will show the results of of the csv file (place.csv)

```
Command Prompt

2 Dir(s)  244 675 424 256 bytes free

C:\Users\Faisal\OneDrive\Desktop\Assignment>python airmine.py
Alta VardÃ, 298.83km.
Alta Longyearbyen 944.89km.
Longyearbyen VardÃ, 982.18km.
London Oslo 1153.25km.
Alta Oslo 1258.60km.
Longyearbyen North pole 1309.50km.
Oslo VardÃ, 1487.62km.
South pole Troll research station 2001.29km.
Longyearbyen Oslo 2043.62km.
North pole VardÃ, 2182.70km.
Alta North pole 2227.36km.
Alta London 2380.32km.
London VardÃ, 2630.12km.
London Longyearbyen 3037.63km.
Anchorage North pole 3200.41km.
North pole Oslo 3345.55km.
London North pole 4280.06km.
Anchorage Longyearbyen 4479.35km.
Anchorage VardÃ, 5382.89km.
Alta Anchorage 5417.86km.
Anchorage Oslo 6443.94km.
Anchorage London 7196.31km.
Jakarta South pole 9316.51km.
Jakarta Troll research station 9835.33km.
Jakarta VardÃ, 10132.86km.
Alta Jakarta 10412.95km.
Jakarta North pole 10608.58km.
```

For giving a argument write

python airmine.py (any number of choose above 1)

```
Command Prompt
Average distance: 13168.13km. Closest pair: Charlotte - Houston 13163.51 km.
C:\Users\Faisal\OneDrive\Desktop\Assignment>python airmine.py 10
Phoenix San Diego 2987.68km.
Fort Worth Columbus 3309.42km.
Washington DC Austin 3585.93km.
Chicago Phoenix 4109.96km.
Columbus Austin 4164.04km.
Seattle San Diego 4195.71km.
Chicago Los Angeles 4991.49km.
Washington DC Fort Worth 5179.79km.
Washington DC Columbus 5720.73km.
Chicago San Diego 5797.97km.
Phoenix Seattle 5982.48km.
Fort Worth Austin 6030.54km.
Seattle Austin 7018.40km.
San Jose Seattle 7177.22km.
San Jose San Diego 7473.08km.
Phoenix Los Angeles 8971.29km.
Washington DC Seattle 9013.79km.
Washington DC San Jose 9536.02km.
Chicago Seattle 9802.70km.
Phoenix San Jose 10403.44km.
Columbus Seattle 10479.06km.
Los Angeles San Diego 10676.21km.
Austin San Diego 10934.93km.
Chicago San Jose 11017.28km.
Phoenix Austin 11033.54km.
San Jose Austin 11175.40km.
Fort Worth Los Angeles 11257.46km.
```