Data Science Assignment 3 Guideline

In this assignment, I used Windows 11 with Python to create and run the code.

To run clustering.py code, you have use the command line format:

```
python [python script] [input data file name] [n] [eps] [MinPts]
```

Running commad:

python clustering.py input1.txt 8 15 22

PS C:\Users\DeRoxy\Documents\GitHub\HYU-DataScience-Clustering-Classification-by-using-DBSCAN> C:/Users/DeRoxy/AppData/Local/Microsoft/WindowsApps/python3.10.exe clustering.py 'Assignment_3 files\Assignment 3 input data\input1.txt' 8 15 22

python clustering.py input2.txt 5 2 7

PS C:\Users\DeRoxy\Documents\GitHub\HYU-DataScience-Clustering-Classification-by-using-DBSCAN>
C:/Users/DeRoxy/AppData/Local/Microsoft/WindowsApps/python3.10.exe clustering.py 'Assignment_3_
files\Assignment 3 input data\input2.txt' 5 2 7

python clustering.py input3.txt 4 5 5

PS C:\Users\DeRoxy\Documents\GitHub\HYU-DataScience-Clustering-Classification-by-using-DBSCAN> C:/Users/DeRoxy/AppData/Local/Microsoft/WindowsApps/python3.10.exe clustering.py 'Assignment_3_files\Assignment_3 input data\input3.txt' 4 5 5

Before testing - Please put the following files in a same directory:

- Testing program
- your output files
- given input files
- attached answer files(~ideal.txt)

```
    ✓ input3_test_folder_euqd
    ≡ input3_cluster_0_ideal.txt
    ≡ input3_cluster_0.txt
    ≡ input3_cluster_1_ideal.txt
    ≡ input3_cluster_1.txt
    ≡ input3_cluster_2_ideal.txt
    ≡ input3_cluster_2.txt
    ≡ input3_cluster_3_ideal.txt
    ≡ input3_cluster_3.txt
    ≡ input3_cluster_3.txt
    ≡ input3.txt
    ≡ PA3.exe
```

Testing:

command: & PA3.exe input1
score: 98.98035% or 99%

PS C:\Users\DeRoxy\Documents\GitHub\HYU-DataScience-Clustering-Classification
 -by-using-DBSCAN\Assignment_3_files\input1_test_folder_euqd> & "C:\Users\DeRo
 xy\Documents\GitHub\HYU-DataScience-Clustering-Classification-by-using-DBSCAN
 \Assignment_3_files\Assignment 3 self test\PA3.exe" input1
 98.98035?

- command: & PA3.exe input2
- score: 94.86598% or 95%

PS C:\Users\DeRoxy\Documents\GitHub\HYU-DataScience-Clustering-Classification
 -by-using-DBSCAN\Assignment_3_files\input2_test_folder_euqd> & "C:\Users\DeRo
 xy\Documents\GitHub\HYU-DataScience-Clustering-Classification-by-using-DBSCAN
 \Assignment_3_files\Assignment 3 self test\PA3.exe" input2
 94.86598?

- command: & PA3.exe input3
- score: 99.97736% or 99%

PS C:\Users\DeRoxy\Documents\GitHub\HYU-DataScience-Clustering-Classification
-by-using-DBSCAN\Assignment_3_files\input3_test_folder_euqd> & "C:\Users\DeRo
xy\Documents\GitHub\HYU-DataScience-Clustering-Classification-by-using-DBSCAN
\Assignment_3_files\Assignment 3 self test\PA3.exe" input3
 99.97736?