

# Assignment3 Guideline

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정진성

## - Instruction

You do not need to compile this file because it was written in Python code.

But since I imported numpy, You have to do "pip install numpy" If the it is not installed.

To execute this file, first enter the path where the file "clustering.py" is located.

Type "**python clustering.py input\_data\_file\_name n Eps MinPts**" in the path.

n: number of clusters for the corresponding input data

Eps: maximum radius of the neighborhood

MinPts: minimum number of points in an Eps-neighborhood of a given point

If you enter the wrong arguments, an error message will be printed.

Then check the arguments and re-enter it.

```
PS C:\Users\wjdwl\Desktop\새 폴더\4-1\데이터사이언스\ass3> py .\clustering.py input1.txt 8 15 22
PS C:\Users\wjdwl\Desktop\새 폴더\4-1\데이터사이언스\ass3> py .\clustering.py input2.txt 5 2 7
PS C:\Users\wjdwl\Desktop\새 폴더\4-1\데이터사이언스\ass3> py .\clustering.py input3.txt 4 5 5
PS C:\Users\wjdwl\Desktop\새 폴더\4-1\데이터사이언스\ass3> py .\clustering.py incorrect.txt 4 5 5
check your input data file
PS C:\Users\wjdwl\Desktop\새 폴더\4-1\데이터사이언스\ass3> py .\clustering.py input3.txt 4 5 5 4
check your arguments
PS C:\Users\wjdwl\Desktop\새 폴더\4-1\데이터사이언스\ass3> py .\clustering.py input3.txt 4 five 5
check your type of arguments
PS C:\Users\wjdwl\Desktop\새 폴더\4-1\데이터사이언스\ass3> 
```

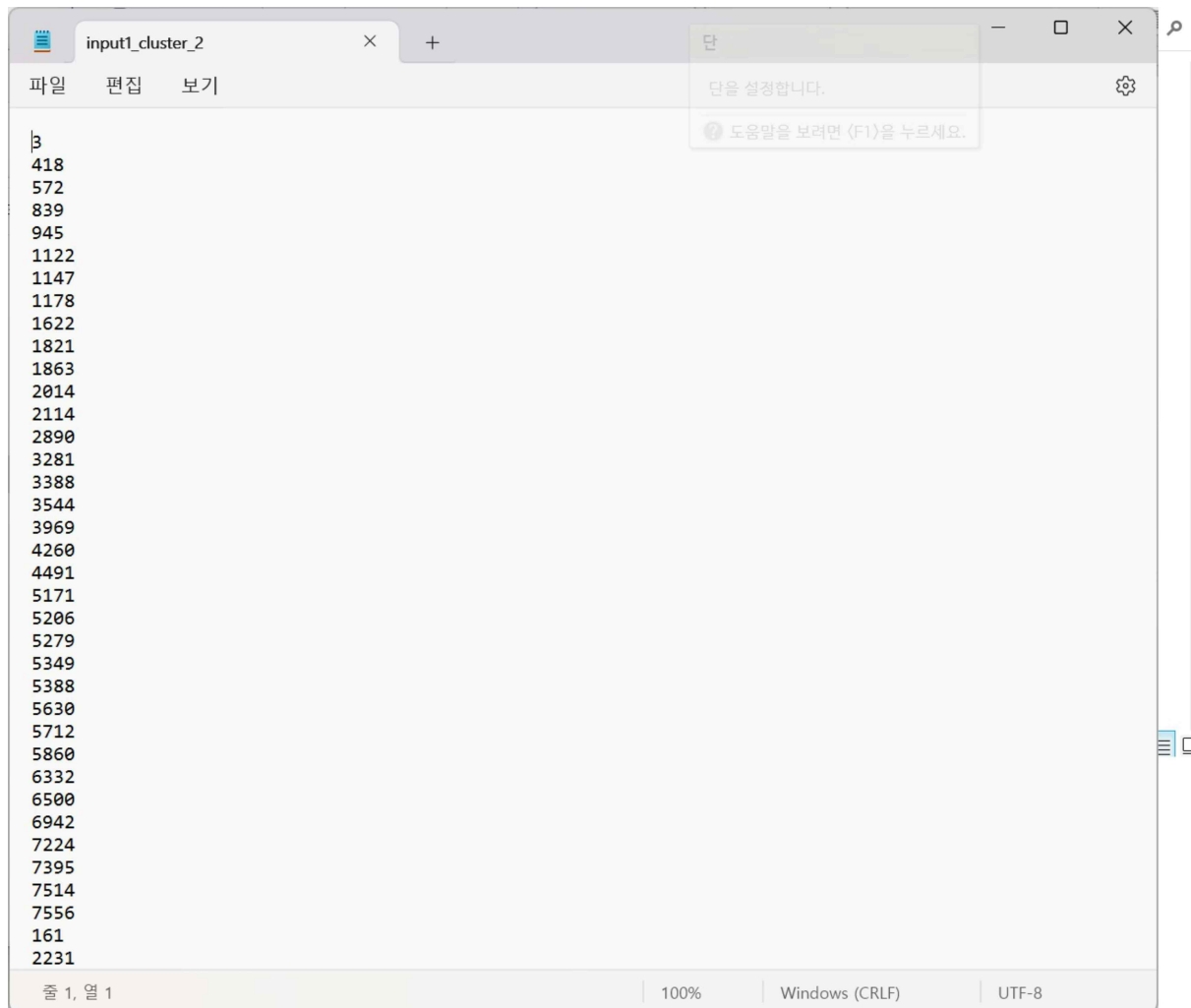
<command example>

If the program had operated normally, it would have generated output files tailored to the output format.

바탕 화면 > 새 폴더 > 4-1 > 데이터사이언스 > ass3 > ass3 검색

이름	수정된 날짜	유형	크기
input1_cluster_3	2023-06-03 오후 4:37	텍스트 문서	1KB
input1_cluster_4	2023-06-03 오후 4:37	텍스트 문서	10KB
input1_cluster_5	2023-06-03 오후 4:37	텍스트 문서	2KB
input1_cluster_6	2023-06-03 오후 4:37	텍스트 문서	1KB
input1_cluster_7	2023-06-03 오후 4:37	텍스트 문서	1KB
input2	2023-06-02 오후 8:43	텍스트 문서	58KB
input2_cluster_0	2023-06-03 오후 4:37	텍스트 문서	4KB
input2_cluster_1	2023-06-03 오후 4:37	텍스트 문서	3KB
input2_cluster_2	2023-06-03 오후 4:37	텍스트 문서	2KB
input2_cluster_3	2023-06-03 오후 4:37	텍스트 문서	3KB
input2_cluster_4	2023-06-03 오후 4:37	텍스트 문서	2KB
input3	2023-06-02 오후 8:43	텍스트 문서	60KB
input3_cluster_0	2023-06-03 오후 4:37	텍스트 문서	3KB
input3_cluster_1	2023-06-03 오후 4:37	텍스트 문서	3KB
input3_cluster_2	2023-06-03 오후 4:37	텍스트 문서	4KB

<generated output files>



<input1\_cluster\_2.txt>

```
C:\Users\wjdwl\Desktop\새 폴더\4-1\데이터사이언스\ass3>PA3.exe input1
98.97037점
C:\Users\wjdwl\Desktop\새 폴더\4-1\데이터사이언스\ass3>PA3.exe input2
94.89474점
C:\Users\wjdwl\Desktop\새 폴더\4-1\데이터사이언스\ass3>PA3.exe input3
99.97736점
```

<scores>

## - Environment

The environment is python 3.10.2 version.

numpy version : 1.24.3