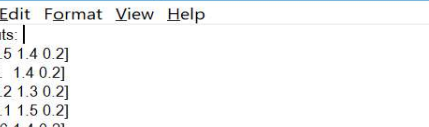


PROGRAMMING EXERCISE - IRIS SPECIES

1. Write a program (**Python3**) to read the IRIS data file ("**iris_dataset.txt**").
2. Find the **median** values of each feature (length and width of petals and sepals, total 4) from the input data.
3. Print the **median** values (**2 digits after decimal point**), separated by comma, on the console screen.
4. Count **how many** for each species: *Setosa (0)*, *versicolor (1)*, or *virginica (2)*
5. **Randomly** rearrange the 150 datasets and print each dataset in one line in the local text file ("**yourID_name_iris_data.csv**"). The 5 values of each dataset are separated by comma.
6. The data and format of the "iris_dataset.txt" file is shown below.
7. Estimate time needed: **1-4 hours**
8. Due time: submit your python program ("**yourID_name_iris_io.py**") before next lecture time



The screenshot shows a Notepad window titled "iris_dataset.txt - Notepad". The text content is as follows:

```
File Edit Format View Help
all inputs:
[5.1 3.5 1.4 0.2]
[4.9 3. 1.4 0.2]
[4.7 3.2 1.3 0.2]
[4.6 3.1 1.5 0.2]
[5. 3.6 1.4 0.2]
[5.4 3.9 1.7 0.4]
[4.6 3.4 1.4 0.3]
[5. 3.4 1.5 0.2]
[4.4 2.9 1.4 0.2]
[4.9 3.1 1.5 0.1]
[5.4 3.7 1.5 0.2]
[4.8 3.4 1.6 0.2]
[4.8 3. 1.4 0.1]
[4.3 3. 1.1 0.1]
```

A purple arrow points from the text "lengths & widths" to the first two columns of the data (sepal length and sepal width).

[illegible]