Non-Textbook Lab 10: Number of Bicycles (30 pts)

Objectives:

1. Practice reading data files
2. Performing math calculations
3. Printing output

Steps:

- We will ask you and your classmates to write on the whiteboard the number of bicycles your immediate family – your parents, you, and your brothers or sisters – own. Include e-bikes, but not motorcycles. If you don't know the exact number, just give an estimate.
- We will put the data into a file **n_bikes.txt**, one number per line, and will post it in this assignment shortly after class.
- Starting with the provided starter file **n_bikes.py**, write a program that reads the data from **n_bikes.txt**, does some math, then displays the following on the screen:

```
Number of families:
Total number of bikes:
Average number of bikes per family:
Maximum number of bikes in a family:
Minimum number of bikes in a family:
```

- **Extra credit (3 pts):** once your program displays the correct results on the screen, edit the program to also write the above results to a file **results.txt.** (*Note: Don't write the results to the input file* **n_bikes.txt**, because that would replace your input data.)

Submitting

Test and run the program in the terminal on your computer before submitting.

Upload **n_bikes.py** and a **readme.txt** to **NT Lab 10** in Canvas.

Ask a TA, Tutor, or Professor for help if you need it.