Homework #1 for Intro to Python

1. Modify Ex1.py to accept multiple input files and combine them into one fixed file. Hint: lookup how to access command line arguments using sys.argv
2. Modify Ex1.py to accept the name of an output file and write the output to that file rather than to the terminal. Hint: you’ll need sys.argv from above, as well as understanding how to open a file for writing and writing to that open file.
3. Modify Ex1.py to produce a tab-separated output file, rather than comma separated.
4. Write a new program that takes the name of a file containing one number per line and calculates and prints the max, min, mean, and standard deviation. Extra credit if you can calculate mean and sd on the fly without holding the all the values in memory. Hint: see the “naïve algorithm” on this page: https://en.wikipedia.org/wiki/Algorithms\_for\_calculating\_variance#On-line\_algorithm