MET 3601 Syntax Problem #6

Please do your work in the syntax-problems folder on the JupyterHub <u>and DON'T forget to also upload the .ipynb file to Canvas!</u>

https://fit25f.ees220002.projects.jetstream-cloud.org/

Objectives

- 1. Practice Writing Python code
- 2. Practice Running Python code
- 3. Use of comment block at beginning of code and comments throughout code
- 4. Practice selective execution with Python syntax

Due by 11:00 am on 9/22/2025

Problem

- 1. Write a Python program that reads in SOI data (soi_data_update.txt; available in the data folder on JupyterHub) and find the maximum and minimum values of SOI for a given year. Output the year, maximum SOI, and minimum SOI value for the year requested to standard output. Use the following structure for your program code:
- a) Read in all data (start with code from syntax6.ipynb in the syntax folder on JupyterHub)
- b) Determine max/min values for 1997
- c) Output needed values to standard output

Notes:

- Double check to make sure you have the correct output for each year!
- Make sure documentation (e.g., comment block and comments throughout code) is present in your source code
- Make output informative so that anyone running your program understand what is being produced without seeing the assignment.
- Rename the program (notebook)

syntax6 lastname.ipynb

where 'lastname' is your lastname ©