Homework 0x01 - Reading CSV Files and Using matplotlib

This short homework assignment is to be completed individually and will give you some practice in writing simple Python code. It will be due on Monday, October 16th before 11:10 AM.

The Assignment

Write a Python program for a PC (not a MicroPython board) which plots data from a CSV (comma separated variable) file on a graph. The file, available on Canvas, is named `data.csv` and follows these conventions:

- There are two or more columns of data, the columns being separated by a comma. There is an unspecified number of rows of data, each separated by a newline.

- The data may consist of integers or floating point numbers; your program must work with both.

- Only the first two columns contain valid data; data in other columns should be ignored.

- There may be whitespace (spaces or tabs) between columns, before the data, or after the data; it must have no effect on your program.

- There may be rows which do not contain two readable numbers; these rows must be ignored by the program and not cause it to crash or stop reading data.

- The first line of the file contains two strings indicating text labels for the two columns of data.

Requirements and Deliverables

Your program must meet the following requirements:

- You will need `from matplotlib import pyplot`. That's the only import allowed; everything else must be done using standard Python functions.

- There must be labels on the graph's horizontal and vertical axes corresponding to the column labels in the CSV file.

- You may use *some* code from others, such as from the web; if you do, a comment must show the source (if it's from the Web, just copy the URL). You are encouraged to search the Web for topics such as `python split string` or `python float`.

You may appreciate using a tool such as Jupyter notebook or Jupyter lab to complete this assignment, but other environments like Spyder, PyCharm, or VS Code will work fine too.

When you have completed the assignment upload the Python source code to Canvas in the appropriate assignment drop-box. You do not need to write a memo for this assignment.