P1.

Mercury is 7 letters.

Goodwin is 7 letters.

For each letter in name 1

For each letter in name 2

Write each number onto the end of the line for each row

Repeat the above for each matrix and change number in the loop

P2.

Read file

* Get matrix from file

Write to file

Sum

* Add element based on row and column

Enter both matrices

If the matrix sizes don’t match, cannot be added

Else use sum method

P3.

To multiply, use dot product equation for matrices

Get two files, assign the given names to variables

Check if they can multiply

Output to file

P.4

Use Matplotlib to plot vectors

Put vectors in list to put all on graph in standard postion

Get the product of given vectors

P.5

Add vectors

Make plot

Add resulting plots to graph

P6.

For transpose, append a row to total row