# Homework 1

Complete the following exercises from HPL (*A Primer on Scientific Programming*). For each program file you turn in:

1. Begin the file with a header that includes a program description, your name, and the date – as in the sample program below.
2. Include the program output within triple quotes at the end of the file.
3. Save the file, using the filename given in the exercise to a hwk01 folder in your class network folder:  
   e.g. \\students\Class\_Files\Class\_Work\MENG\<your\_name>\hwk01\egg.py

# -\*- coding: utf-8 -\*-

'''

1plus1.py

HPL Exercise 1.1: computes and outputs the sum 1 + 1

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'''

sum = 1 + 1

print('1 + 1 =', sum)

'''

Trial run (correct result is 2):

1 + 1 = 2

'''

1. **HPL Exercise 1.3** (p 43) [2 points]
2. **HPL Exercise 1.5**  (p 43) [4 points]  
   Densities of the materials in g/cm3 are given below:

* Iron = 7.8
* Air = 0.0012
* Gasoline = 0.67
* Ice = 0.9
* Human body = 1.03
* Silver = 10.5
* Platinum = 21.4

1. **HPL Exercise 1.6** (p 43) [4 points]
2. **HPL Exercise 1.9** (p 44) [4 points]  
   Your find\_errors\_programs.py file should contain the corrected code for all three parts (a, b, c).
3. **HPL Exercise 1.12** (p 46) [6 points]  
   Remember you can use ‘\’ to wrap long statements to the next line.