

CS 109 – C/C ++ Programming for Engineers w. MatLab– Fall 2009

Homework Assignment 5

Table of Partial Pressures Using Matlab

Due: Wednesday 11 November by 11:59 p.m., via Blackboard. Hard copy due in lab, must match electronic copy exactly.

Overall Assignment

For this assignment, you are to repeat homework assignment 2, using Matlab instead of C++.

Program Details

Write a Matlab m-file that performs the same as for homework assignment 2, with the following notes and adjustments:

- Your program should use array operations, not loops.
- Report all partial pressures as calculated. DO NOT substitute the word DANGER for values over 1.4 as was requested in HW2.

What to Hand In:

1. Your code, **including a readme file**, should be handed in electronically using Blackboard.
2. The purpose of the readme file is to make it as easy as possible for the grader to understand your program. If the readme file is too terse, then (s)he can't understand your code; If it is overly verbose, then it is extra work to read the readme file. It is up to you to provide the most effective level of documentation.
3. If there are problems that you know your program cannot handle, it is best to document them in the readme file, rather than have the TA wonder what is wrong with your program.
4. Make sure that your name appears at the beginning of each of your files. Your program should also print this information when it runs.
5. You should also hand in a hard-copy printout of your program and readme file at the **beginning** of class on the assigned due date.

Optional Enhancements:

It is course policy that students may go above and beyond what is called for in the base assignment if they wish. These optional enhancements will not raise any student's score above 100 for any given assignment, but they may make up for points lost due to other reasons.

- Generate one or more plots showing your results, properly labeled.
- Other enhancements that you think of – Check with TA for acceptability.