LAB ASSIGNMENT 1

INSTRUCTIONS

Do your best on these simple Matlab programming assignments. Write your answers in a .txt or .m file and email them to me at atschneider@temple.edu with “2033” in the subject line.

This assignment is due by 11:59PM 9/1/2015. It won’t be graded, that is, if you submit anything you will get full credit for the assignment. Still, try your best to come up with a correct solution.

PROBLEMS

Write Matlab code that does the following:

1. Create a vector of the numbers 1 to 100
2. Create a vector of the even numbers between 1 and 49 in reverse order (that is [48, 46, ..., 2])
3. Assign the matrix \[
\begin{bmatrix}
1 & 2 & 3 \\
4 & 5 & 6 \\
3 & 2 & 1
\end{bmatrix}
\]
   to a variable a
4. Add the first column of a to the second column of a
5. Add 3 to every element of a
6. Add 3 to every element of the second row of a
7. Assign the vector [5, 7, 11, 13, 17] to the variable x. Assign the vector [1, 2, 3, 5, 7] to the variable y.
8. Find the sum of the component-wise multiplication of x and y
9. Raise each element of x to the power of the corresponding element in y
10. Divide each element of x by the corresponding element in y
11. Create a vector with the elements
   - [1, 1/2, 1/3, ..., 1/100]
   - [0, 1/2, 2/3, 3/4, ..., 99/100]

Date: August 27, 2015.