EECS 448 - Lab 01

In Matlab, write a script to

- 1. assign values to two matrices
- 2. multiply the matrices (both element-wise and matrix multiplication)
- 3. compute and then display the fibonacci sequence (around 5 to 10 entries)
- 4. change all occurrences of the minimum value of a matrix to zero without using loops
- 5. solve the system of equations y=Ax using matrix inversion
- 6. import a rgb image and convert it to grayscale
- 7. with a bin width of 10, compute the frequency histogram for the grayscale image and display the corresponding histogram

```
fig = bar(...)
saveas(fig, 'filename', 'png')
```

useful matlab commands:

- diary: http://www.mathworks.com/help/matlab/ref/diary.html
- imread: http://www.mathworks.com/help/matlab/ref/imread.html
- imshow: http://www.mathworks.com/help/matlab/ref/imshow.html
- rgb2gray: http://www.mathworks.com/help/matlab/ref/rgb2gray.html
- bar: http://www.mathworks.com/help/matlab/ref/bar.html, see the example titled "Specify Bar Locations"

Deliverables:

- your script (m file)
- your "diary"
- your bar graph
- (optional) your source image