**Homework 0**

Due: 04/05/2019

For this homework, it is useful to browse the Matlab tutorial document published on Canvas.

Question 1:

1. Install Matlab
2. Make a script called Homework0.m. Write you answers to all of the questions in comments. Use %% to denote a new section for a question, and use % to start a comment which then allows you to write words and sentences. Comments aren't run by Matlab when you run the script.

Question 2:

1. Define the variable x and set it equal to 6.
2. What is the difference between ending the line with a semicolon ‘;’ and when it does not have a semicolon?
3. Define a variable y and set it equal to 2.
4. What does x + y return? What about x - y?
5. What does x \* y return? What about x/y?
6. What are the variables currently in your workspace?

Question 3:

1. Define the vector a equal to [1, 2, 5, 7, 4].
2. What does a(1) return?
3. What does a(0) return? Why?
4. What does a([2, 4]) return?
5. What does a + y return?
6. What does a \* y return?
7. What does length(a) return?
8. What does min(a) return? What does max(a) return?

Question 4:

1. Define a matrix A = [1, 2, 3; 4, 5, 6].
2. What does A(1) return? What does A(1, 1) return?
3. What does A(1, 2) return? What does A(2, 1) return?
4. What does A \* y return?
5. What does A’ do? (Note: that is an apostrophe after the variable A.)

Question 5:  
Publish your script and submit the pdf on canvas. For help with publishing scripts, check out the Matlab tutorial.