LESSON ZERO, PRE-EXERCISES

%TO YOU RUN THIS SCRIPT, GO TO "EDITOR" IN THE MENU BAR, THEN "RUN SECTION"

%(THE SMALL GREEN ARROW WITH THE YELLOW NOTE). DO NOT RUN EVERTHING AT

%ONCE. ALSO, YOU CAN PASTE AND COPY STUFF IN THE COMMAND WINDOW BELOW.

%help yourself with documentation (Search documentation in the upright

%corner)

%the "%%" above starts a new section in the script.

%create a variable named "boring\_variable" and give it value 5

boring\_variable = 5

%over-write "boring\_variable" with a value of 2

boring\_variable = 2

%create a variable named "funny\_variable" and give it value 3

funny\_variable = 3

%over-write "funny\_variable" with a value of 5

funny\_variable = 5

%now, copy and paste all the previous line of code in the command window

%and check the output. Does it work? Also, after that check the WorkSpace

%(on the right, normally above the "command history") and see that your

%variables are kept there and so matlab remembers them...

%go to the menu above (with "home, plots, apps, editor etc.). select

%"editor". Click on "insert" and insert a new section below.

%OR, you can do the same thing by just writing " %% " below this

%comment.

%example of vector

example\_vec = [99, 88, 77]

% create a 1 dimension array (like a vector) and name it "funny\_vector". it

%contains "funny\_variable", the values of 4 and "boring\_variable".

funny\_vector = [4, funny\_variable, boring\_variable]

% TRANSPOSE funny\_vector and store it into the variable funny\_vectorT

% (check the documentation to find out which function you need)

funny\_vectorT = transpose(funny\_vector)

% OR funny\_vectorT = funny\_vector'

%Generate a 3-by-3 matrix of uniformly distributed random numbers between 0 and 1.

%(use the function RAND. see documentation section

%-search option in the upper right corner in matlab)

rand(3)

%find and copy the example that says "Use the randi function (instead of rand)

%to generate 5 random integers from the uniform distribution between

%10 and 50."

randi([10,50],5)

%go on Editor, and run this section (green arrow on top of a document)

% append random\_vec to funny\_vector and store everything into "big\_vector"

big\_vector = [random\_vec, funny\_vector]

%this will generate an error because you did not create the variable

%"random\_vec". So create a random vec, for example:

random\_vec = randi([3,8],1,5)

big\_vector = [random\_vec, funny\_vector]

%now it works

%plot big\_vector

plot(big\_vector)

%plot big\_vector with histograms. use the function "hist()"

hist(big\_vector)

% add to the big\_vector first plot a title.

%you can modify it directly on the plot

%run this section (editor -> run section)

%save this script :) (Editor --> save)