%data

%create a 1 dimension array 1 by 8 (name it "a"), with random numbers from 1 to 12.

%HINT: use randi()

%run "a" in the command window as well as the variables below (w, pi, k, m)

w = 8

pi % it's a constant already stored in matlab, pi greek = 3.14...

k = 2

m = 5

%run this section to store the variable into the workspace

# OPERATORS

% check if pi is smaller than 4. Remember: 1 = true, 0 = false

% check whether k is equal 2 (remember the difference between "=" and "==")

%check whether m is bigger or equal to 5

%check where it's true that the vector "a" is equal to w

% store in a vector "b" the elements of vec "a" that are bigger than 5.

%store in a vector "c" the elements of vec "a" that are smaller or equal to

%5 OR bigger than 8.

%store in a vector "d" the elements of vec "a" that are bigger than 5 AND

%smaller than 10.

# IF, ELSEIF, ELSE

%in a psychological experiment, we studied the interactions among victims

%and perpetrators. Participants were random assigned to 2 conditions.

%Each condition differed by the perpetrator's outcome for each scenario

%presented. condition 1= perpetrator is apprheended,

%cond. 2 = perpetrator got away. We measured the amount of victim blaming

%per each condition.

%simulate a random dataset (call it "data") with scores (values) that

%have a maximum value of 40. there will be 20 subjects (rows) and 2

%condititions (columns). column 1 = condit. 1, col2 = cond2

%run the line of code above to have the variable data stored.

make a statement where if the average of the elements of the first column of "data" is bigger than the average of the elements of the 2nd column of "data", then matlab display something, else, it display something else.

%. use the function mean() to calculate the mean.

% HINT: to access the FIRST ROW of a matrix: matrix(1,:). and for columns?

if %add code here

 disp("the victim is blamed MORE when the perpetrator is apprehended than when he got away")

else

 disp("the victim is blamed LESS or the same amount when the perpetrator got away")

end

%complete the code.

%if a number in the vector "numbers" is smaller than 3, than display "it's

%small". if the number is equal to 3 or 4, then "it's medium". otherwise,

%it's big!

numbers = [0 1 2 3 4 5 6 7 8]

for idx = 1:length(numbers)

 each\_element = numbers(idx)

 if %COMPLETE: each\_element is smaller than 3.

 disp("it's small")

 elseif each\_element == 3 | each\_element ==4%complete

 %complete (display a message that says that "it's medium")

 else

 %complete display "it's big!"

 end

end

%comment the code in group. what is idx? and "each\_element"? what does the

%"for" do?