Part A: Tracking User Defined Functions through **MATLAB** Code

The following exercise is to be worked on as a team in-class. Work with the problems by hand first and then type the solutions into **MATLAB** to check them. Be prepared to show a member of the instructional team after you find the correct solutions. When you are finished, write your answer in **ma2_team_2_teamnumber.pdf** and save the file.

Consider the user-defined functions, `fn1` and `fn2`, as shown below.

```
function [x,y]=fn1(x,y)
%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Help description
%%%%%%%%%%%%%%%%%%%%%%%%%%%
x = x - 4;
[y,x] = fn2(x,y);
y = x^2 - 10;
end

function [out1,out2]=fn2(in1,in2)
%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Help description
%%%%%%%%%%%%%%%%%%%%%%%%%%%
out1 = in1 + in2;
out2 = in2 - in1;
end
```

The following codes are executed in the **MATLAB** Command window. What values do the variables `x` and `y` have?

```
>> x = 3;
>> y = 5;
>> [x,y] = fn1(x,y)
```

X=6

Y=26