ENGR141 Grade Report: MATLAB 1 PA

Name	Kathryn Atherton	**Total Points Earned**	15
Team	59	**Total Points Possible**	20
Grader	Casey Schilling	**Percentage Earned**	75.0%

Grading System Message(s)	Individual Assignment Grade

Does flow diagram:	**Pass**	**Part**	**Fail**
Follow correct formatting shapes?	**0**	NA	-0.5
Follow flow diagram language independence?	**0**	NA	-0.5
Correctly represent what is shown in the programmed function(s)?	**2**	1	0.0
Subtotal	**2**	**of**	**2**

Does the function:	**Pass**	**Part**	**Fail**
Have correct filename?	**0**	NA	-0.5
Have no code standard issues?	0	**-0.5**	-1
Expect no user input besides its function arguments?	**1**	NA	0
Have function arguments in the correct order (height, width, thickness)?	**1**	0.5	0
Have all lines with suppressed output?	**1**	0.5	0
Calculate the area of the I-beam?	**1**	0.5	0
Output includes units?	**1**	0.5	0
Output information to the screen with correct format (i.e number of decimals, separate lines)?	**1**	0.5	0
Subtotal	**5.5**	**of**	**6**

Test Case 1

Input	**Output**	**Pass**	**Part**	**Fail**
help ML1_PA_Task1b_login	Some descriptive help/instructions	**2**	1	0

Test Case 2

Input	**Output**	**Pass**	**Part**	**Fail**
ML1_PA_Task1b_login(6, 3, 1)	Height = 6.0 ft Width = 3.00 ft Thickness = 1.000 ft Cross-sectional area = 10.00 sq. ft	**1**	0.5	0
	Subtotal	**3**	**of**	**3**

Does Python Function:	**Pass**	**Part**	**Fail**
Have correct name (getIBeam())?	**1**	0.5	0
Return a vector containing area, height, width, and thickness?	1	0.5	**0**
Return a tuple (no list)?	1	0.5	**0**
Subtotal	**####**	**of**	**3**

Does Python Script:	**Pass**	**Part**	**Fail**
Have correct filename?	0	NA	-0.5
Have no code standard issues?	0	-0.5	-1
Ask user for inputs on one line?	1	0.5	0
Ask user for file name?	1	0.5	0
Output information to file specified by user?	1	0.5	0
Display correctly formatted output?	1	0.5	0
Subtotal	**3.5**	**of**	**4**

Test Case

Input	**Output**	**Pass**	**Part**	**Fail**
6 3 1 OutPA.txt	Input height, width and thickness of I-beam (in ft): **6 3 1** ...running Enter file name where you wish to save results: **OutPA.txt** ...output written to file OutPA.txt **Output to File:** For a beam with a height of 6.0 ft, width of 3.00 ft and a thickness of 1.000 ft, the cross-sectional area is 10.00 sq. ft.	2	1	0
	Subtotal	**-**	**of**	**2**

Total	**15 of 20**

Grader Comments

For your MATLAB function: Per code standard (although it isn't very clear about this) the function definition line should be the first thing in the function. This is then followed by the comments describing the program and then a gap, then your header followed by inputs, etc. As you may have noticed with your funtion it still has an "ans" given in MATLAB (which technically isn't appropriate if you are printing in the function itself). The way to avoid this is to remove the variables in the brackets in the function definition line.

Python script didn't compile without error with our grading script.