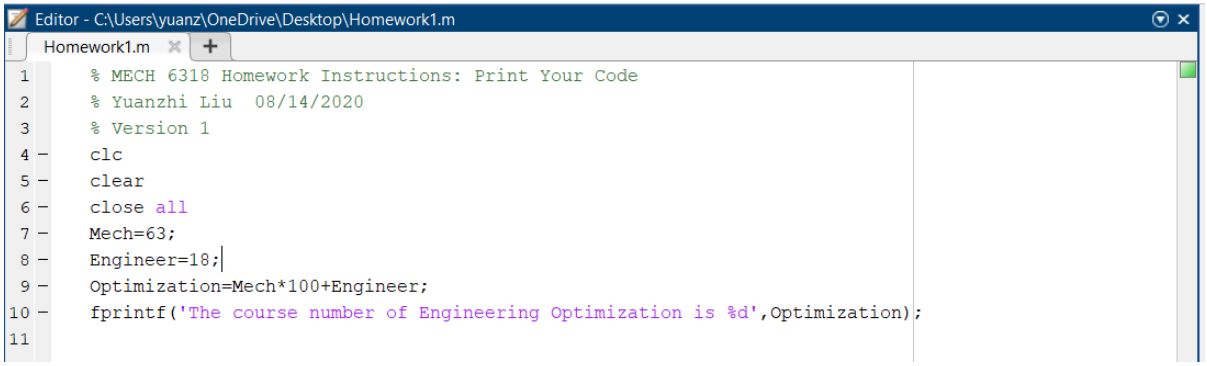
MECH 6318 Engineering Optimization

Homework Instructions

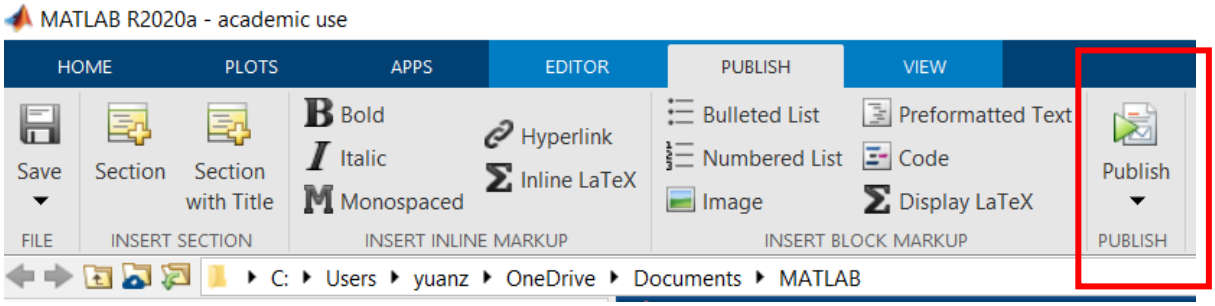
1. Your homework needs to be **submitted via eLearning**. You could finish your homework in an exercise-book, and then scan them into **a PDF file** (smartphone PDF scan software for reference: Camscanner, Microsoft Office Lens). Or you can also do the homework using iPad, Surface, and other writing equipment (Writing software: OneNote, Notability, Good note).

2. All the solutions should be included in **one PDF file**. All the codes should be compressed into a ZIP file. You are required to submit both PDF and ZIP files when there are coding problems. (If you have several separated pdf files, try to combine them into one, you could find free PDF combiners online.)

3. For the coding problem or coding section, you are required to print your solutions in MATLAB. (It is quite hard for the TA to run the codes since the MATLAB versions are very diverse and the locations of the supporting files may also change). The steps are as follows.



When your code is finished without any mistakes, use the 'Publish' option to publish your code and results.



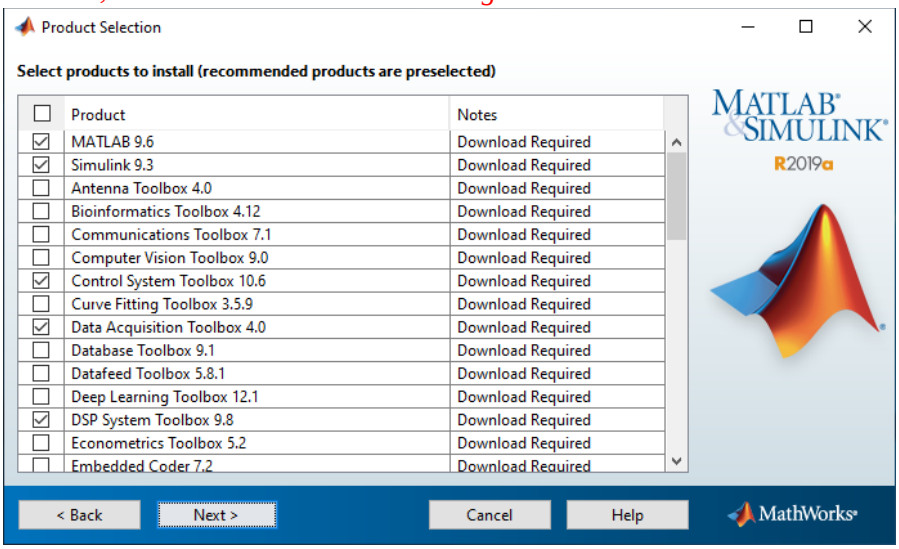
You could have similar outputs like this. Remember to add the final outputs to your solutions. (You could capture your screen or directly save the output as a PDF file.)

```
% MECH 6318 Homework Instructions: Print Your Code
% Yuanzhi Liu  08/14/2020
% Version 1
clc
clear
close all
Mech=63;
Engineer=18;
Optimization=Mech*100+Engineer;
fprintf('The course number of Engineering Optimization is %d',Optimization);
```

```
The course number of Engineering Optimization is 6318
```

Published with MATLAB® R2020a

4. The UT Dallas student has full academic access to MATLAB. Please find attached the link for MATLAB installation and activation: https://www.utdallas.edu/oit/helpdesk/kb/94413d01531bf19d4690084d1f984457321611df20 During the installation, besides the preselected toolboxes, you are also suggested to install the following toolboxes: *Curve Fitting Toolbox, Optimization Toolbox, Global Optimization Toolbox, Statistics and Machine Learning Toolbox.*



If you have installed MATLAB but without the suggested packages, please refers to the following article.
https://ww2.mathworks.cn/matlabcentral/answers/101885-how-do-i-install-additional-toolboxes-into-an-existing-installation-of-matlab