

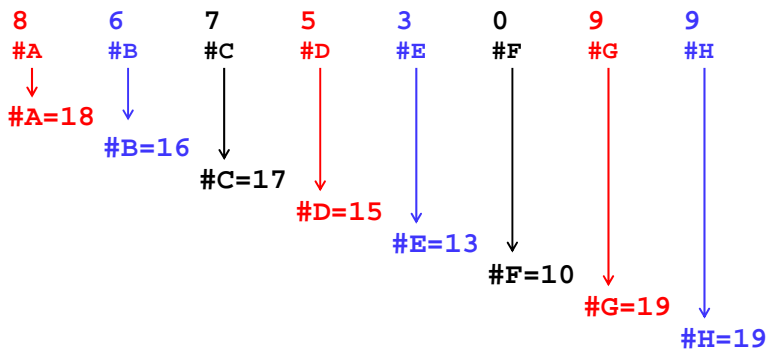
Assignments, Projects & Exams

Problems contain variables #A → #H taken from your student number.

Ten is added to each digit so parameter value ranges from 10 → 19.

Example:

Tommy Tu-Tone has the following student number



Variable Naming Convention

See **apeExample.m** for example solutions using different data-types.

All variables are stored in STRUCTURES that correspond to the Question Number.

- Q1 Structure used for Question 1
- Q2 Structure used for Question 2

There are 4 data types. Data-type and dimensions must be correct.

Data-type & dimensions will be error checked by grading script.

Scalar:

- Q1.Ka = 1.23;

Vector:

- Q1.Vb = [1 2 3 4 5];

Matrix:

- Q1.Mc = ones(3,4);

LTI Object:

- Q1.G1 = tf([1 2], [3 4 5]);
- Q1.G2 = zpk(1, [2 3], 4);

Submit Work

Full marks for **CORRECT** answers. Part marks for **CLOSE** answers.

- Physical Units
 - $1V \neq 1mV$ (respect the physical units specified)
 - Physical units are specified for all graded work
- Percentages
 - Represented as WHOLE NUMBERS, not FRACTIONS
 - Eg. Answer = 50% Q1.pct = 50;
 - Eg. Answer = 0.5% Q2.pct = 0.5;

Create & submit MAT file – **NOTHING ELSE.**

- Run: **a1Submit.p** (Matlab script for Assig 1)
- Assignment graded **on the spot**. Feedback provided for correct & close answers.
- Plots: **Black** = based on solution / **Red** = based on student answer
- Run as often as needed before submitting MAT-file on Canvas.
- Edited output files receive **NEGATIVE GRADE + ACADEMIC MISCONDUCT (repeat offender)**.

Canvas adds characters to file-name – this is fine.

- Example: 86753099-a1.MAT (created by a1Submit.p)
- extrachars**-86753099-a1-**1**.MAT (saved by Canvas)

Check yOur Work

Real-world problems don't have an answer key. You must use deduction, estimates, and alternative solutions to determine if you are on the right track.

The Submit scripts do not provide feedback if your solution is incorrect. When physical units are wrong, solutions may be off by 1,000 times or more. If your procedure is wrong, the error may be worse. You must investigate the problem on your own.

Occasionally you'll see advice on how to **Check yOur Work**.
Just look for the **COW**.

COW: Plot the step response. Is the final value ok ???

COW: Compute the resistance. Is it complex or negative ???



Manage Script Errors

Each grading script is a “.p” file which operates just like a “.m” file. It can access workspace variables, and can run Matlab scripts that exist on your computer.

If you see unexpected results, the script might be confusing one of your “.m” scripts with an internal function in the “.p” file.

- Use an **unusual naming convention** for your scripts. For example, include your name.
 - leoFindGains.m (for example)
- Do not create any scripts named:
 - ‘q1.m’, ‘q2.m’, etc.
- Do not store scripts in the current working directory (where you store the ‘.p’ file).
- Reset your search path to the default before running the grading script.

Each grading script is designed to provide feedback while you are working on the assignment.

- Do not create dummy variables.
- If you did not attempt Question #2, do not create a Q2 structure.

Run-time errors should never occur. If you have taken all possible precautions and still get a run-time error, report it.

- Go to the “Report Script Error” Canvas page.
- Follow the instructions to submit a Debug file.
- Send me an email to indicate that a problem has been reported.

Avoid Getting a **ZERO**

For each assignment and exam, you will hand in a MAT file.

A MAT file is a binary file that only Matlab can read.

Any two MAT files look very much alike.

If you accidentally hand in a MAT file from a previous assignment, you will get **ZERO**.

Delete all MAT files once they have been submitted.