**CSE3442 (Fall 2020)**
**Lab #1**

1. Install the TI Code Composer Studio software on your laptop from https://software-dl.ti.com/ccs/esd/documents/ccs_downloads.html.
2. Download the Tivaware library SW-EK-TM4C123GXL-2.2.0.295.exe at https://www.ti.com/tool/SW-TM4C and extract the tm4c123gh6pm.h file from the /inc folder to your computer.
3. Connect your controller board to your PC. If you do not have a board yet, there are a couple of boards you can borrow from the cabinet.
4. Follow these steps in CCS:
    a. Select File > New > Project
    b. Select CCS Project and Select Next
    c. Make sure the target is Tiva TM4C123GH6PM and the connection is Stellaris In-Circuit Debug Interface.
    d. Give the project a name, use an Empty Project, and Select Finish
    e. Copy the stop_go.c code from class to the project directory.
    f. If main.c exists in the project, delete it from the project.
    g. Copy the tm4c123gh6pm.h file you downloaded earlier to the project directory.
    h. Select the “Debug” button from the toolbar.
    i. The program will compile and then stop at the opening brace ({) in main().
    j. Select View > Debug and press the green play arrow to continue.
    k. Optional: To prevent the program from stopping in main() every time you run the program, go to Project > Properties and then Debug > Auto Run and Launch Options and remove “main” in the Run to symbol edit box.
5. Verify that the stop go program runs as expected.
6. Demonstrate this result to the GTA for credit.