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Lab 1 - Hello LaunchPad

In this lab we will be looking at the functionality of our TM4C123G LaunchPad with a starter code similar to how we would (by tradition) learn how to print “Hello World” when learning a programming language. We are tasked to change the original code in order to implement different features of the program. The features that will be changing is the color of the LED when a button (SW1) is pressed and when it is not being pressed. While working on this lab, some difficulties that I personally ran into was the initial installation of the programs and drivers (having KeilV5 from a previous class made things complicated). Eventually I was able to get the right drivers and version of Keil installed. After this initial problem of installing the program, I did not run into any other technical issues. Within this lab, I learned about the function of our General-Purpose I/O ports, and it’s specific pins that it is connected to. In our lab, we utilized GPIO Port F, which has 5 ports, PF0 - PF4. P0 and P4 are for the switch buttons (SW2 and SW1 respectively) and P1-P3 drives the RGB value of our multicolor LED.