**CMPE 460 Lab Exercise One Lab**

**Intro. To K64F GPIO and Keil uVision**

Joel Yuhas

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Lab Section: 01L1

Instructor: Louis Beato

TA: Adrian Tygart

Bao Thai

Lecture Section: 01

Professor: Ray Ptucha

**Description:**

The “Intro. to K64F GPIO and Keil uVision” exercise involved learning how to set up and create a project in Keil uVision, initializing the “freedom development board”, and modifying registers in order to change the LED color in a specific sequence upon pushing a button.

**Table 1: C Command Table**

|  |  |
| --- | --- |
| GPIOx\_PDOR=<value> | Sets entire register to “<value>” |
| GPIOx\_PSOR=<value> | Sets all bits in the register for which “<value>” has a “1” bit |
| GPIOx\_PCOR=<value> | Clears all bits in the register where “<value>” has a “1” |
| GPIOx\_PTOR=<value> | Toggles all bits in the register where “<value>” has a “1” |
| If(GPIOx\_PDIR=<value>) | Test an input register, can be used to check if specific pin is high or low |

