



Lab Exercises

Q1. In Tiva C, PF4 is connected to a push button and PF1, PF2, and PF3 are connected to an RGB LED. PF1 is Red, PF2 is Blue, and PF3 is Green.

Write Embedded C application that reads input from the switch and when it is pressed for the first time the Red LED should be turned on then when pressed a second time turn off the Red LED and turn on the Blue LED then when pressed a third time turn off the Blue LED and turn on the Green LED then when pressed a fourth time turn off the Green LED and turn on again the Red LED and then repeat the cycle.



Lab Submission

Q2. TIVAC LaunchPad has two build-in switches SW 1 (PF4) and SW 2(PF0), Three LEDs (Red (PF1), Blue (PF2), Green (PF3)).

- If both switches are pressed, → turn on the Red LED.
- If SW1 is pressed, SW2 is not pressed → turn on the Blue LED.
- SW2 is pressed, SW1 is not pressed → turn on the Green LED.

Check through the simulated Kit that the behavior of your code is correct.