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**Date:** 11/27/2019

**Project Title:** Simple Electronic Door Lock

**User Input:**

* 5 x Buttons: 4 for combination entry

1 for resetting lock

**User Output:**

* RGB LED: Red for Locked

Green for Unlocked

**Project Description:**

* A simple electronic door lock implementation that shows the door is locked by lighting an RBG LED red. The user is provided 5 buttons: 4 for input combination and 1 for resetting the lock back to the locked state.
* The user uses a specific 4-key combination using the 4 buttons to traverse through the different states of the design to finally reach the unlocked state.
* This unlocked state is displayed by the red LED switching to a green color, indicating an unlocked door.
* Entering the combination of 4 key presses wrong flickers the red LED and the lock goes back to the reset state.

**Required Hardware:**

* PICDEM LAB II Prototype board
* RGB LED
* 3 x 220 Ohm resistors
* 5 x 10k Ohm resistors
* 5 x buttons
* Selection of wires