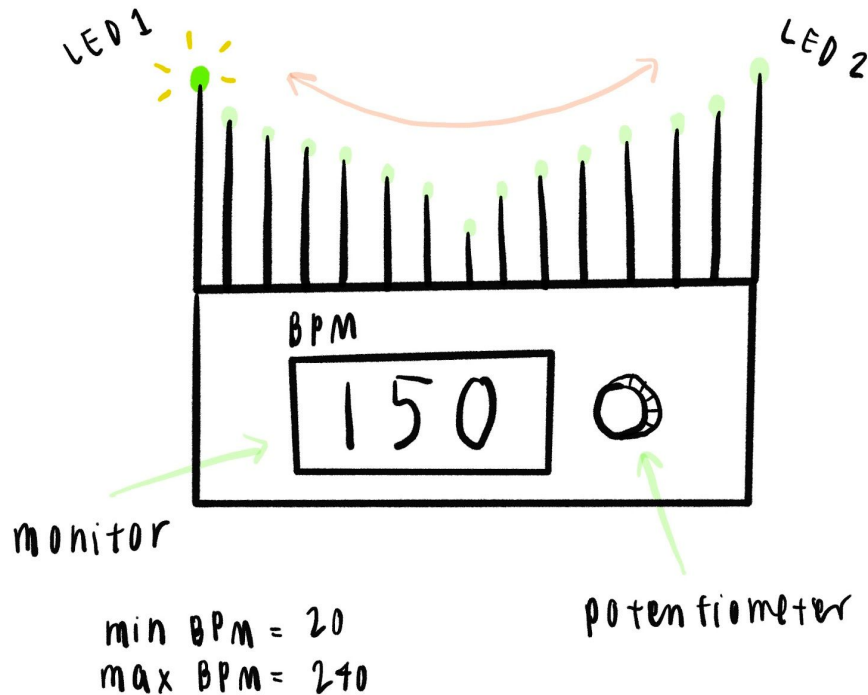**Document Info**
Kara
ART 385
Project 2

Re-state the Assignment
Create a real-world hardware example with two inputs and two outputs.
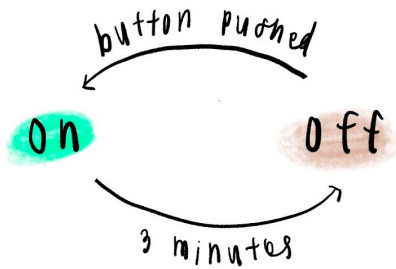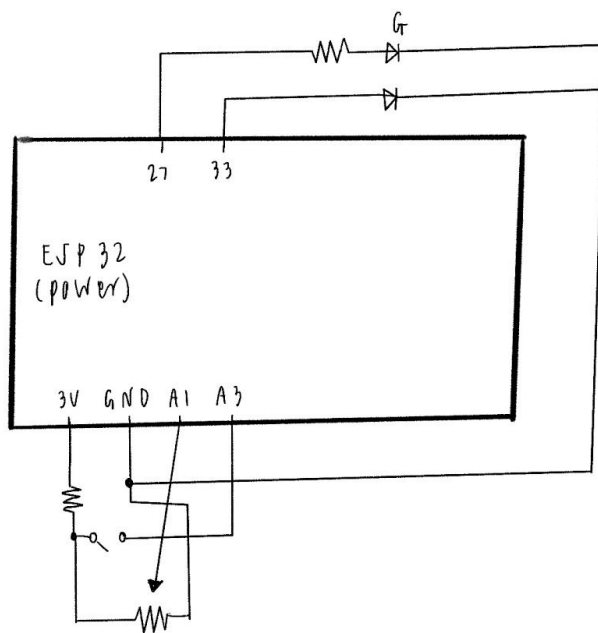
Sketch

Concept
This is a metronome that can be used in various musical settings. The BPM can be adjusted by turning the potentiometer. It goes from 20 BPM to 240 BPM. The two LEDs blink alternately, according to the BPM. The serial monitor displays the current BPM. This metronome automatically turns off after 3 minutes, the average song length. Ideally, the metronome would also have multiple LEDs blinking in between the two LEDs as well as sound beeping according to the BPM.

State Diagram

metronome State Diagram

button pushed

on → off

3 minutes

Schematic diagram

G

27   33

ESP 32
(power)

3V   GND   A1   A3

Video
https://youtu.be/rl8naYql4Y8