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ECE-350-001

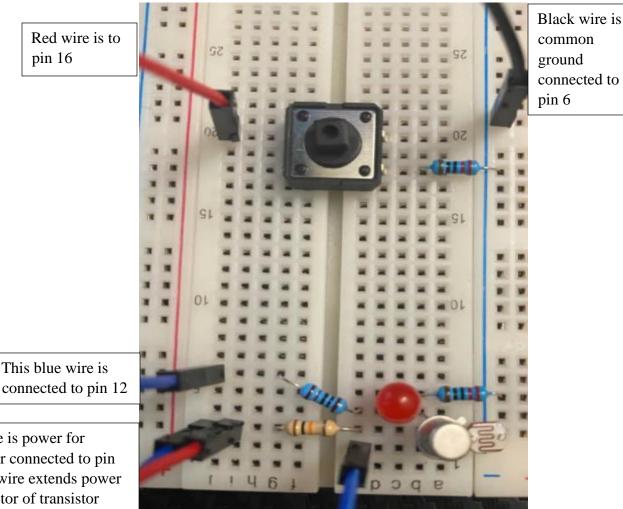
10.19.2020

Lab 4: Intelligent Lighting Controller

Description: The purpose of this lab is to create a dark sensor led circuit that will turn off in the light and on in the darkness while having some extra features such is outputting when the led was turned off or on and for how long has the led been turned off or on. The last feature is a push button switch that will act as a manual override button to manually set the led status.

Breadboard:

pin 16



This blue wire is

Red wire is power for transistor connected to pin 1. Blue wire extends power to collector of transistor

Questions:

1. Rmax =
$$8 \sim 20k$$
 Rmin = $1M \Omega$ $R_{req} = 10k \Omega$

2. We can input between
$$+$$
 or -5 mA