Laboratory #03 ENEE 148A Fall 2016

This lab is an individual effort! Complete the following tasks:

1. Generate and run the program Light\_detect.c, after building the necessary circuit.
2. Change the code to
	1. print to the monitor “light just turned on/off” just once after the sensor changes its state.
	2. maintain an LED on while the sensor reads that it is dark out.
3. Have your instructor verify successful operation.
4. Change the code to:
	1. Get data from two light sensors.
	2. print to the monitor “light X just turned on/off” just once after the sensor X changes its state.
	3. maintain an LED on while the sensor X reads that it is dark out (for each sensor).
	4. print to the monitor “both lights are on/off” just once after both lights enter in the same state (on or off).
	5. maintain a third LED on while both sensors read that it is dark out.
5. Have your instructor verify successful operation.

For the write-up of this lab, due 7 October 2016, you need to submit (1) a paper copy of the codes that you wrote and (2) an electronic copy of the codes that you wrote. You also need to draw a diagram of the circuit that you built and any pseudocode/flowchart that you made.

