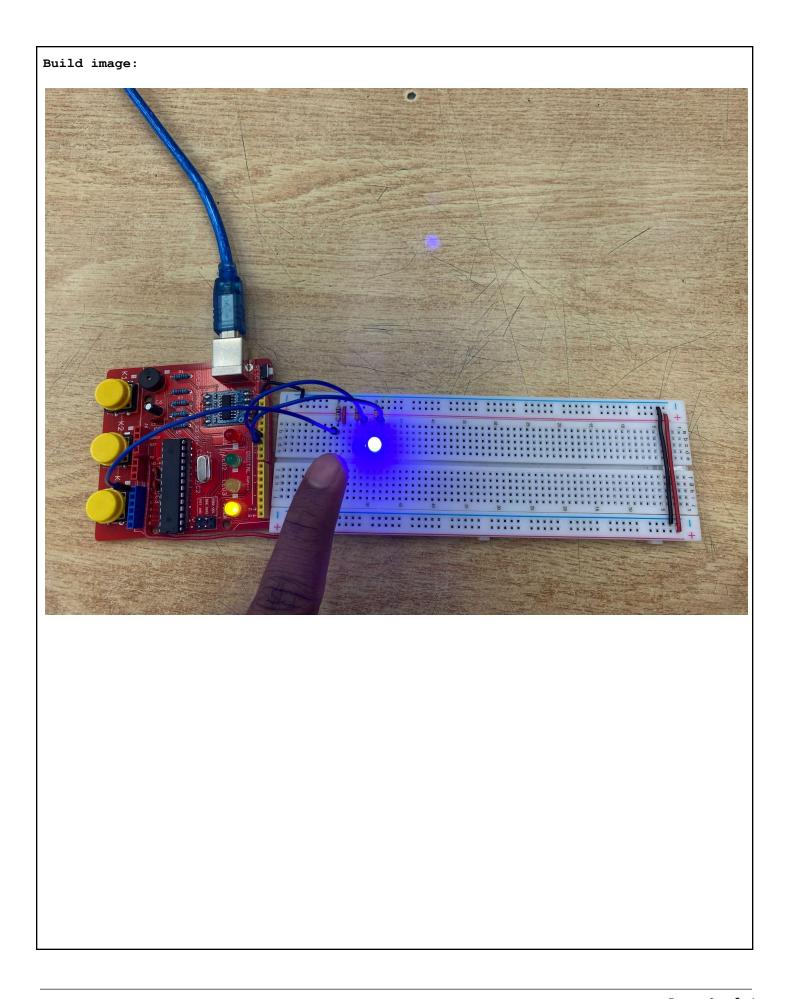
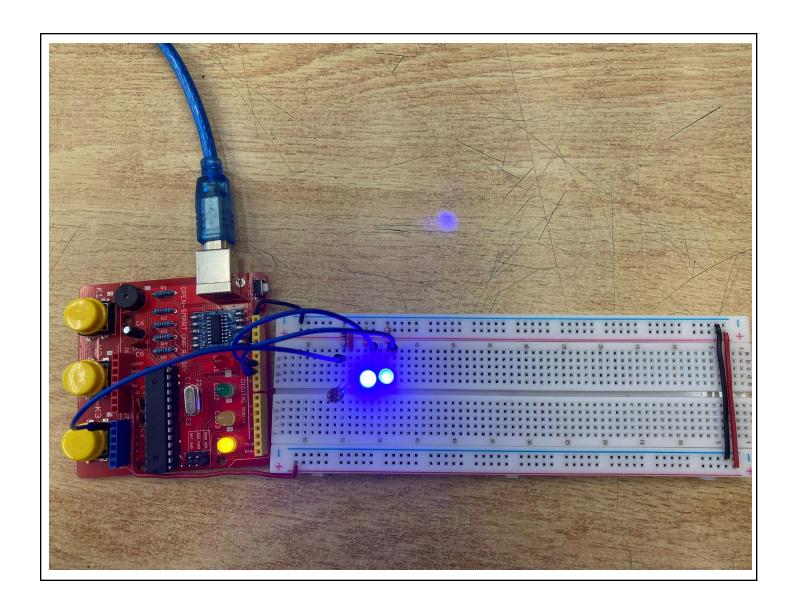
LVL	Criteria
R	
1	
2	
3	
4	"build and wire"[3]
	<pre>"programming"[3]</pre>
	demonstrates full understanding of circuit and interfacing concepts in conversation with teacher
4+	<pre>"enhancements"[1]</pre>





```
code:
Names: Siddarth & Mostafa
Dates: May 11, 2022
Description: Code for interfacing lab 9 - LDR
int ldrPin = 0; // sets ldr pin
int ldrInput; // initializes variable for the ldr input
int led1 = 11; // sets first led pin
int led2 = 10; // sets second led pin
int ledBrightness; // initializes variable with led brightness
int ledBrightnessConstrained; // initialize variable for constrained led brightness
void setup() {
 pinMode(led1, OUTPUT); // sets first led as output
 pinMode(led2, OUTPUT); // sets second led as output
 pinMode(ldrPin, INPUT); // sets ldr pin as input
void loop() {
  ldrInput = analogRead(ldrPin); // receives input from ldr
 ledBrightness = map(ldrInput, 400, 760, 0, 255); // maps input to 0 - 255
                                        // set between 400 and 760 based on testing
  ledBrightnessConstrained = constrain(ledBrightness, 0, 255); // constraints the
// brightness
  analogWrite(led1, ledBrightnessConstrained); // turns on first led with brightness
  analogWrite(led2, 255 - ledBrightnessConstrained); // second is the opposite
                                                    // of the first led
                                                    // (255 - brightness)
```