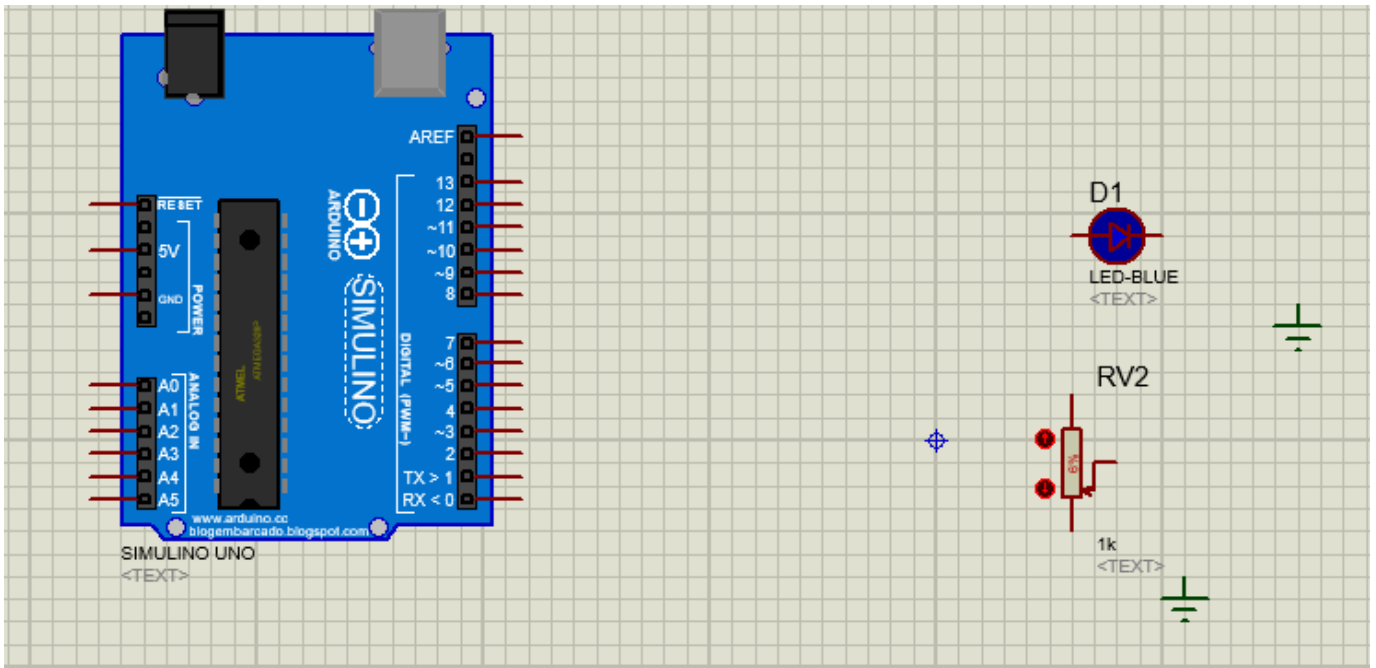# LED with Variable resistor

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1. Add Arduino UNO and ground as you learned in previous lectures.

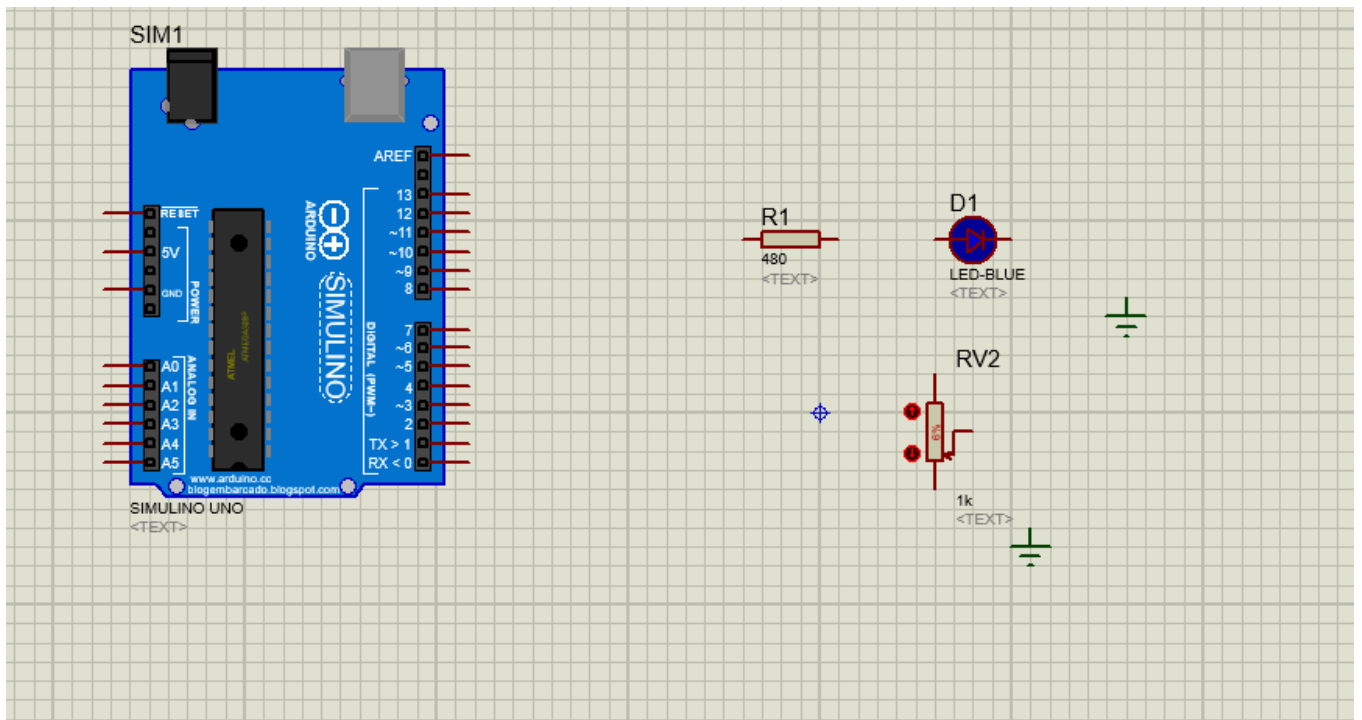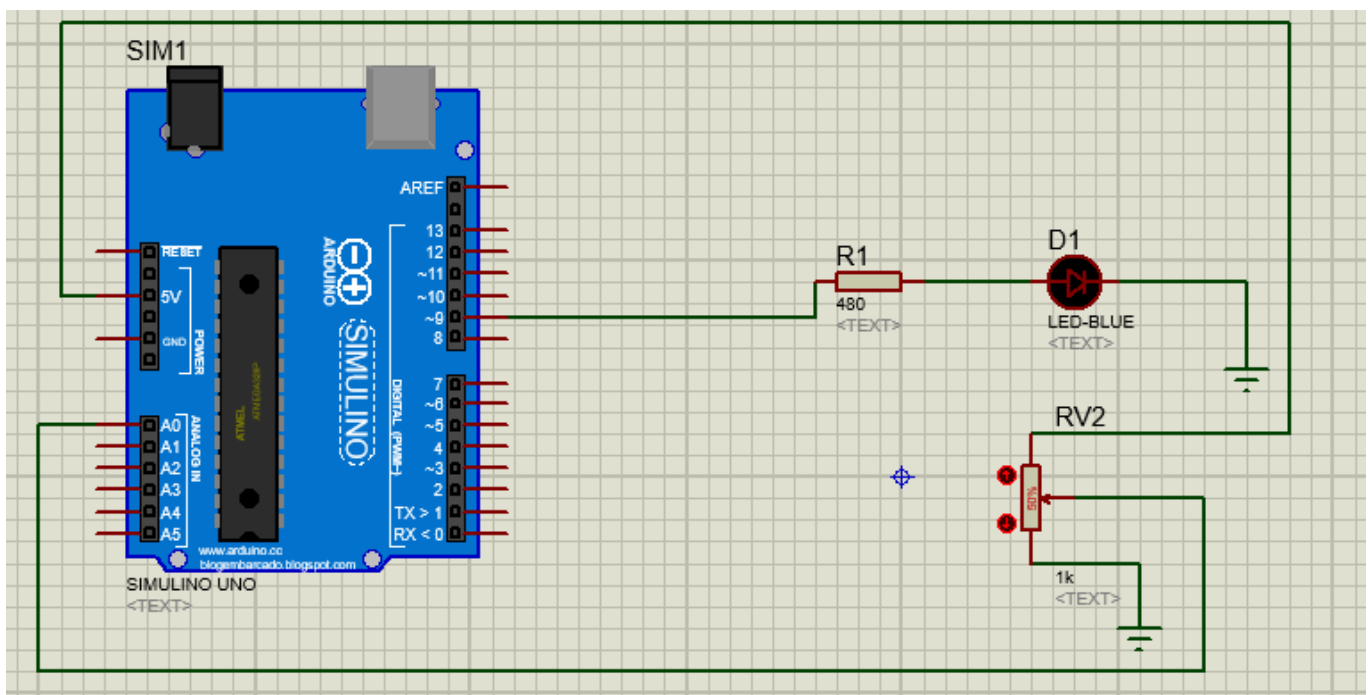2. Add LED and variable resistor.

3. Add resistor (480).

4. Connect the circuit as shown.

* Variable resistor has 3 pins.

- The first pin is **Vcc**, so it should be connected to 5V.
- The center pin is its **Data Pin** and variable resistor gives its output when it measures volt.
- The third pin is **GND** and should be connected to the ground of the battery/source.

Sketch

```
int potPin = A0;
int potValue = 0;
int led = 9;
void setup() {
 pinMode(led, OUTPUT);
}
void loop() {
 potValue = analogRead(potPin);

 analogWrite(led, potValue/4);

 delay(10);
}
```