Photo-resistor circuit

Input Voltage
Vdd
(5V)

Output
Voltage

220 Ω

2 kΩ

Ground
Vss

Tri-color LED pins

Red
Cathode
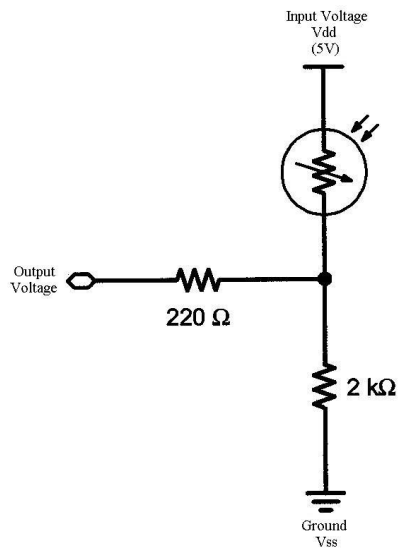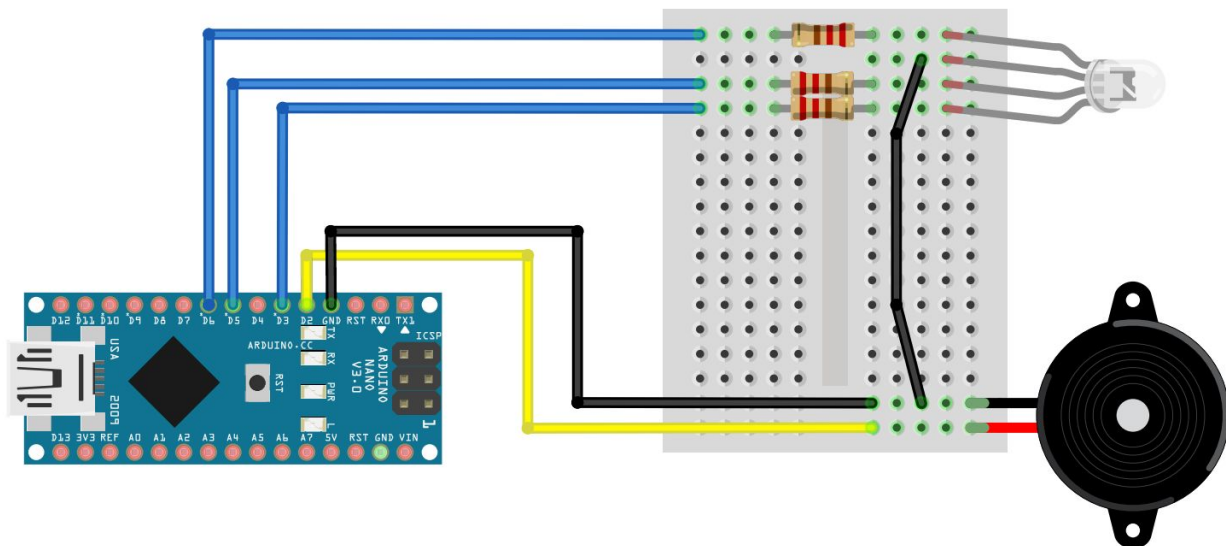Green
Blue

"Blink and BEEP!" circuit


```
//Blink and BEEP! code
int PIEZO_PIN = 2;
int RED_PIN = 3;
int GREEN_PIN = 5;
int BLUE_PIN = 6;

void setup()
{
  // everything here gets run once at the beginning

  // set all of the pins for output (not input)
  pinMode(RED_PIN,  OUTPUT);
```

```
    pinMode(GREEN_PIN,OUTPUT);
    pinMode(BLUE_PIN, OUTPUT);
    pinMode(PIEZO_PIN,OUTPUT);
}

void loop()
{
  // everything here gets run repeatedly

  // turn on the red pin
  digitalWrite(RED_PIN,HIGH);

  // wait 0.5 seconds
  delay(500);

  //turn off the red pin
  digitalWrite(RED_PIN,LOW);

  // turn on the green pin, etc
  digitalWrite(GREEN_PIN,HIGH);
  delay(500);
  digitalWrite(GREEN_PIN,LOW);
  digitalWrite(BLUE_PIN,HIGH);
  delay(500);
  digitalWrite(BLUE_PIN,LOW);

  //...

  // beep the buzzer for 0.25 seconds
  digitalWrite(PIEZO_PIN,HIGH);
  delay(250);
  digitalWrite(PIEZO_PIN,LOW);
}
```

"Intruder Alarm" circuit