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int RED = 9;
int GREEN = 10;
int BLUE = 11;

#include <Wire.h>
#include "MAX30105.h"

MAX30105 particleSensor;

long unblockedValue; //Average IR at power up

void setup() {

  pinMode(RED, OUTPUT);
  pinMode(GREEN, OUTPUT);
  pinMode(BLUE, OUTPUT);
  Serial.begin(9600);

  if (particleSensor.begin(Wire, I2C_SPEED_FAST) == false) //Use default I2C port,
400kHz speed
  {
    Serial.println("MAX30105 was not found. Please check wiring/power. ");
    while (1);
  }

  byte ledBrightness = 0xFF; //Options: 0=Off to 255=50mA
  byte sampleAverage = 4; //Options: 1, 2, 4, 8, 16, 32
  byte ledMode = 2; //Options: 1 = Red only, 2 = Red + IR, 3 = Red + IR + Green
  int sampleRate = 400; //Options: 50, 100, 200, 400, 800, 1000, 1600, 3200
  int pulseWidth = 411; //Options: 69, 118, 215, 411
  int adcRange = 2048; //Options: 2048, 4096, 8192, 16384

  particleSensor.setup(ledBrightness, sampleAverage, ledMode, sampleRate,
pulseWidth, adcRange); //Configure sensor with these settings

  //Take an average of IR readings at power up
  unblockedValue = 0;
  for (byte x = 0 ; x < 32 ; x++)
  {
    unblockedValue += particleSensor.getIR(); //Read the IR value
  }
  unblockedValue /= 32;

  delay(3000);

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}

void loop() {
  long currentDelta = particleSensor.getIR() - unblockedValue;
  unsigned long timer =0;
  if(currentDelta >(long)10){
    timer = millis();
    Serial.println(timer);
    if (timer >= 3000){
      startSequence();
      timer = 0;
    }
    else{
      displayColor(0,0,0);
      Serial.println("bye bye");
    }
  }
  else{
    timer = 0;
    Serial.println("no mo");
  }
}

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void displayColor(int r, int g, int b){
  analogWrite(RED,255-r);
  analogWrite(GREEN,255-g);
  analogWrite(BLUE,255-b);
}

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void startSequence(){
  Serial.println("ster");
  /*blink yellow x3*/
  for(int i=0; i<2; i++){
    displayColor(255,255,0);
    delay(1000);
    displayColor(0,0,0);
    delay(1000);
  }

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/*fade yellow to green*/
for(int i=0; i<255; i++){
  int r=255-i;
  displayColor(r, 255, 0);
  delay(35);
}

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/*blink green 3x */
for (int i=0; i<2; i++){
    displayColor(0,255,0);
    delay(1000);
    displayColor(0,0,0);
    delay(1000);
}

/* fade green to yellow */
for (int i=0; i<255; i++){
    displayColor(i, 255, 0);
    delay(50);
}

/*fade yellow to red*/
for(int i=0; i<255; i++){
    int g=255-i;
    displayColor(255,g,0);
    delay(25);

}

displayColor(0,0,0);
delay(2000);

}
```