// Digital pin 8 will be called 'pin8'

int pin8 = 8;

// Analog pin 0 will be called 'sensor'

int sensor = A0;

// Set the initial sensorValue to 0

int sensorValue = 0;

// The setup routine runs once when you press reset

void setup() {

// Initialize the digital pin 8 as an output

pinMode(pin8, OUTPUT);

// Initialize serial communication at 9600 bits per second

Serial.begin(9600);

}

// The loop routine runs over and over again forever

void loop() {

// Read the input on analog pin 0 (named 'sensor')

sensorValue = analogRead(sensor);

// Print out the value you read

Serial.println(sensorValue, DEC); //DEC-Decimal Values

// If sensorValue is greater than 500

if (sensorValue > 500) {

// Activate digital output pin 8 - the LED will light up

digitalWrite(pin8, HIGH);

Serial.println("Alert!");

Serial.println(sensorValue);

}

else {

// Deactivate digital output pin 8 - the LED will not light up

digitalWrite(pin8, LOW);

}

}