const int gas = 0;

int MQ2pin = A0;

int led = 13; // the pin that the LED is atteched to

int sensor = 2; // the pin that the sensor is atteched to

int state = LOW; // by default, no motion detected

int val = 0;

void setup() {

Serial.begin(96000);

pinMode(led, OUTPUT); // initalize LED as an output

pinMode(sensor, INPUT); // initialize sensor as an input

Serial.begin(9600);

}

void loop() {

val = digitalRead(sensor); // read sensor value

if (val == HIGH) { // check if the sensor is HIGH

digitalWrite(led, HIGH); // turn LED ON

delay(500); // delay 100 milliseconds

if (state == LOW) {

Serial.println("Motion detected!");

state = HIGH; // update variable state to HIGH

}

}

else {

digitalWrite(led, LOW); // turn LED OFF

delay(500); // delay 200 milliseconds

if (state == HIGH){

Serial.println("Motion stopped!");

state = LOW; // update variable state to LOW

}

}

float sensorValue,MQ2pin; //Gas sensor

sensorValue = analogRead(MQ2pin);

if(sensorValue >= 470){

digitalWrite(11,HIGH);

digitalWrite(9,HIGH);

Serial.print(sensorValue);

Serial.println(" !!ALERT!!");

}

else{

digitalWrite(11,LOW);

digitalWrite(9,LOW);

Serial.println("Sensor Value: ");

Serial.println(sensorValue);

}

delay(1000);

}

float getsensorValue(int pin){

return (analogRead(pin));

}

