#include <LiquidCrystal.h>

const int rs = 2, en = 3, d4 = 4, d5 = 5, d6 = 6, d7 = 7;

LiquidCrystal lcd(rs, en, d4, d5, d6, d7);

const int loadcell= A0;

const int gas= A5;

const int buzzer= 8;

void setup()

{

lcd.clear();

lcd.begin(16, 2);

lcd.setCursor(0,0);

lcd.print("GAS MONITOING");

lcd.setCursor(0,1);

lcd.print("WARNING SYSTEM");

pinMode(loadcell, INPUT);

pinMode(gas, INPUT);

pinMode(buzzer, OUTPUT);

digitalWrite(buzzer, HIGH);

Serial.begin(115200);

delay(1000);

}

void loop()

{

int loadcell\_val= analogRead(loadcell);

int gas\_val= analogRead(gas);

if(gas\_val>500)

{

lcd.clear();

lcd.setCursor(0,0);

lcd.print("GAS LEAKAGE");

lcd.setCursor(0,1);

lcd.print("DETECTED");

digitalWrite(buzzer, LOW);

delay(2000);

digitalWrite(buzzer, HIGH);

}

if(loadcell\_val<50)

{

lcd.clear();

lcd.setCursor(0,0);

lcd.print("...WARNING!!!...");

lcd.setCursor(0,1);

lcd.print("GAS NEAR EMPTY");

Serial.println("1,1");

delay(1000);

digitalWrite(buzzer, LOW);

delay(50);

digitalWrite(buzzer, HIGH);

delay(50);

digitalWrite(buzzer, LOW);

delay(50);

digitalWrite(buzzer, HIGH);

delay(50);

digitalWrite(buzzer, LOW);

delay(50);

delay(2000);

}

else

{

lcd.clear();

lcd.setCursor(0,0);

lcd.print("GAS MONITOING");

lcd.setCursor(0,1);

lcd.print("WARNING SYSTEM");

}

delay(1000);

}