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| Date | 07 November 2022 |
| Team ID | PNT2022TMID17583 |
| Project Name | Gas Leakage Monitoring And Alerting System |

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| --- |
| #include <LiquidCrystal.h> |
|  | LiquidCrystal lcd(5,6,8,9,10,11); |
|  |  |
|  | int redled = 2; |
|  | int greenled = 3; |
|  | int buzzer = 4; |
|  | int sensor = A0; |
|  | int sensorThresh = 400; |
|  |  |
|  | void setup() |
|  | { |
|  | pinMode(redled, OUTPUT); |
|  | pinMode(greenled,OUTPUT); |
|  | pinMode(buzzer,OUTPUT); |
|  | pinMode(sensor,INPUT); |
|  | Serial.begin(9600); |
|  | lcd.begin(16,2); |
|  | } |
|  |  |
|  | void loop() |
|  | { |
|  | int analogValue = analogRead(sensor); |
|  | Serial.print(analogValue); |
|  | if(analogValue>sensorThresh) |
|  | { |
|  | digitalWrite(redled,HIGH); |
|  | digitalWrite(greenled,LOW); |
|  | tone(buzzer,1000,10000); |
|  | lcd.clear(); |
|  | lcd.setCursor(0,1); |
|  | lcd.print("ALERT"); |
|  | delay(1000); |
|  | lcd.clear(); |
|  | lcd.setCursor(0,1); |
|  | lcd.print("EVACUATE"); |
|  | delay(1000); |
|  | } |
|  | else |
|  | { |
|  | digitalWrite(greenled,HIGH); |
|  | digitalWrite(redled,LOW); |
|  | noTone(buzzer); |
|  | lcd.clear(); |
|  | lcd.setCursor(0,0); |
|  | lcd.print("SAFE"); |
|  | delay(1000); |
|  | lcd.clear(); |
|  | lcd.setCursor(0,1); |
|  | lcd.print("ALL CLEAR"); |
|  | delay(1000); |
|  | } |
|  |  |
|  | } |