Detection of Gas Leakage

By,

Mahbub-ul-Hasan Nafi
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Tilak Chakraborty
2018200000043

Md. Rakibuzzaman
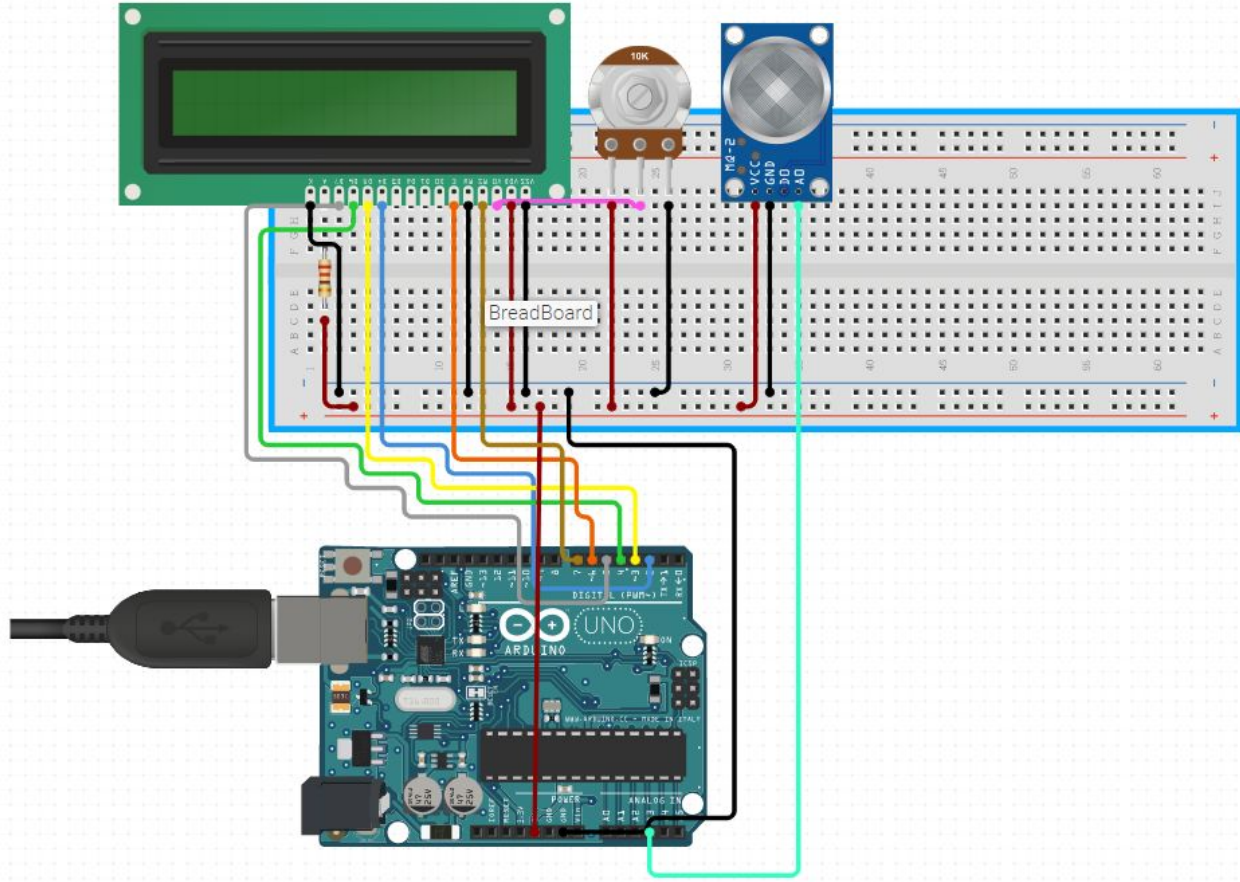2018000000136

Resources

1. Arduino Uno

2. 16X2 (1602) LCD Display

3. MQ2 gas sensor

4. Active Buzzer

5. 10K Potentiometer

6. Female header pins

7. Breadboard

8. 5V charger or power bank

Code

```
#include <LiquidCrystal.h>

LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

#define lpg_sensor 7

#define buzzer 13

void setup(){

  pinMode(lpg_sensor, INPUT);

  pinMode(buzzer, OUTPUT);

  lcd.begin(16, 2);

  lcd.print('LPG Gas Detector');

  delay(2000);
}
```

Code

```
void loop(){

  if(digitalRead(lpg_sensor)){

    digitalWrite(buzzer, LOW);

    lcd.clear();

    lcd.print('NO LPG GAS');

    lcd.setCursor(0, 1);

    lcd.print('LEAKAGE');

    delay(400);

    digitalWrite(buzzer, LOW);

    delay(500);

  }
```

```
else{

    digitalWrite(buzzer, HIGH);

    lcd.clear();

    lcd.print('LPG Gas Leakage');

    lcd.setCursor(0,1);

    lcd.print('Alert');

    delay(1000);
  }
}
```