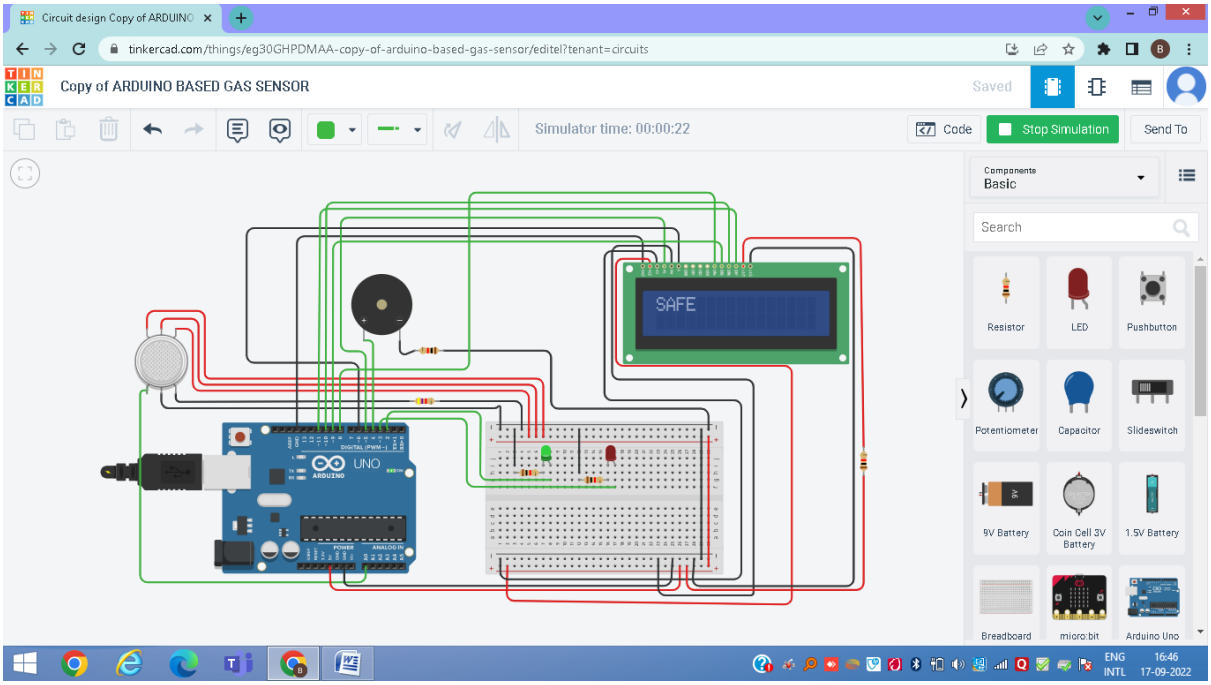
ARDUINO BASED GAS SENSOR:

DIAGRAM:



CODE:

```
#include <LiquidCrystal.h>

LiquidCrystal lcd(5,6,8,9,10,11);


int redled = 3;

int greenled = 2;

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);
 }

}
```