**CODE:**

**// Name: Obaid-Ur-Rahman Siddiqui**

**// Reg No: L1S19BSCS0001**

#include <LiquidCrystal.h>

#define D4 4

#define D5 5

#define D6 6

#define D7 7

#define E 8

#define RS 9

LiquidCrystal LCD(RS, E, D4, D5, D6, D7);

int intensity=0;

void setup()

{

Serial.begin(9600);

pinMode(A0,INPUT);

pinMode(11,OUTPUT);

LCD.begin(16,2);

}

void loop()

{

intensity=analogRead(A0);

Serial.println(intensity);

LCD.setCursor(0,0);

LCD.print("Value : ");

LCD.print(intensity);

delay(100);

LCD.clear();

intensity = map(((analogRead(A0))), 0, 1023, -455, 251);

analogWrite(11,intensity);

}

**Tinker Cad Link:**

[**https://www.tinkercad.com/things/f37RNuLERSG-gas-sensor/editel?sharecode=dgtGdOYe-dMIi5IAW9laJ7L2lKYloC--6TC8wDGgRVk**](https://www.tinkercad.com/things/f37RNuLERSG-gas-sensor/editel?sharecode=dgtGdOYe-dMIi5IAW9laJ7L2lKYloC--6TC8wDGgRVk)

**Circuit picture:**

**Graphical user interface, diagram

Description automatically generatedGraphical user interface, diagram

Description automatically generated**

**Graphical user interface

Description automatically generated**