LAMPIRAN

```
// -------- Project Alat Pendeteksi Kebocoran Gas LPG ------- //
// ---------- Berbasis Arduino dan Sensor Gas MQ-2 ---------- //
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd = LiquidCrystal_I2C(0x27, 20, 4);
const int sensor_gas = 12;
const int buzzer = 11;
const int led_hijau = 10;
const int led_merah = 9;
const int Kipas = 4;
void setup()
{
 lcd.init();
 lcd.backlight();
 lcd.clear();
 lcd.setCursor(4,0);
 lcd.print("Tugas Akhir");
 lcd.setCursor(0,1);
 lcd.print(" Politeknik Negeri");
 lcd.setCursor(0,2);
```

```
 lcd.print("     Sriwijaya    ");
 delay (5000);
 Serial.println();
 lcd.setCursor(0,1);
 pinMode(sensor_gas,INPUT);
 pinMode(buzzer,OUTPUT);
 pinMode(led_hijau,OUTPUT);
 pinMode(led_merah,OUTPUT);
 pinMode(Kipas, OUTPUT);
}
void loop()
{
 int nilai = digitalRead(sensor_gas);
 if (nilai == LOW)
 {
 digitalWrite(buzzer,HIGH);
 lcd.setCursor(0, 0);
 lcd.print("Kondisi Ruangan:");
 lcd.setCursor(0, 1);
 lcd.print("Gas Bocor         ");
 delay (1000);
```

```
Serial.println();
digitalWrite(led_hijau,LOW);
digitalWrite(led_merah,HIGH);
digitalWrite(Kipas, HIGH);
}
if (nilai == HIGH)
{
digitalWrite(buzzer,LOW);
lcd.setCursor(0, 0);
lcd.print("Kondisi Ruangan:");
lcd.setCursor(0, 1);
lcd.print(" Sangat Aman      ");
lcd.setCursor(0, 2);
lcd.print("                ");
digitalWrite(led_hijau,HIGH);
digitalWrite(led_merah,LOW);
digitalWrite(Kipas, LOW);
}
}
```