TASK-2

2.air pollution monitoring

#include <LiquidCrystal.h>

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

#define RedLED 3

#define GreenLED 2

#define Sensor A0

int Max = 400;

void setup()

{

pinMode(Sensor, INPUT);

pinMode(RedLED, OUTPUT);

pinMode(GreenLED, OUTPUT);

Serial.begin(9600);

LCD.begin(16, 2);

}

void loop()

{

int PPM = analogRead(Sensor);

Serial.println(PPM);

LCD.clear();

LCD.setCursor(0 ,0);

LCD.print("Air Qlty:");

LCD.print(PPM);

LCD.print(" PPM");

if(PPM > Max) {

digitalWrite(RedLED, HIGH);

digitalWrite(GreenLED, LOW);

LCD.setCursor(0, 1);

LCD.print("ALERT!!!");

delay(1000);

}

else {

digitalWrite(RedLED, LOW);

digitalWrite(GreenLED, HIGH);

LCD.setCursor(0, 1);

LCD.print("SAFE :)");

delay(1000);

}

}