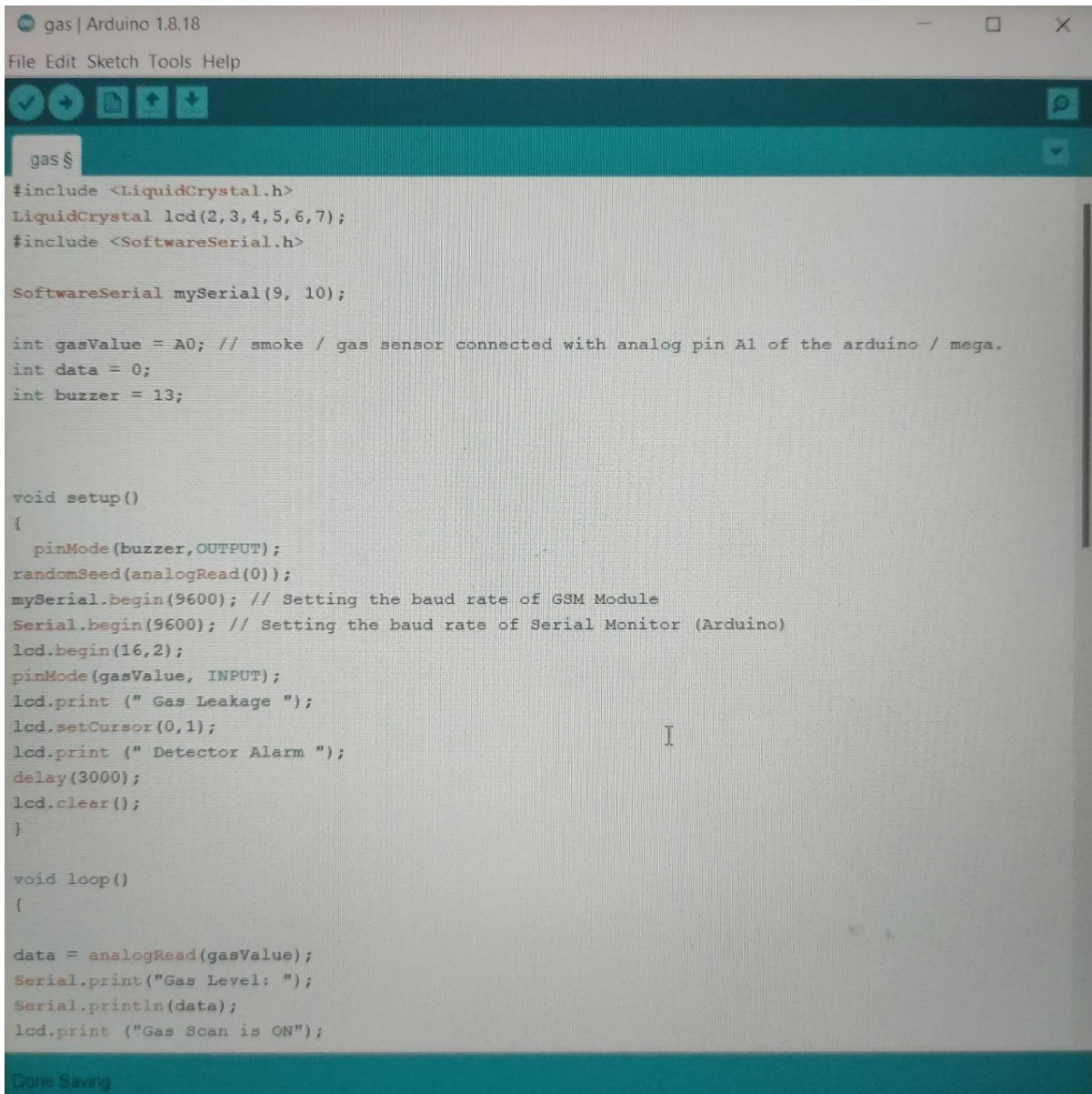


Sprint-2

Project planning phase

Date	12 November 2022
Team ID	PNT2022TMID06193
Project Name	Project – Gas Leakage Monitoring and Alerting System



```
gas | Arduino 1.8.18
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gas §

#include <LiquidCrystal.h>
LiquidCrystal lcd(2,3,4,5,6,7);
#include <SoftwareSerial.h>

SoftwareSerial mySerial(9, 10);

int gasValue = A0; // smoke / gas sensor connected with analog pin A1 of the arduino / mega.
int data = 0;
int buzzer = 13;

void setup()
{
  pinMode(buzzer, OUTPUT);
  randomSeed(analogRead(0));
  mySerial.begin(9600); // Setting the baud rate of GSM Module
  Serial.begin(9600); // Setting the baud rate of Serial Monitor (Arduino)
  lcd.begin(16,2);
  pinMode(gasValue, INPUT);
  lcd.print (" Gas Leakage ");
  lcd.setCursor(0,1);
  lcd.print (" Detector Alarm ");
  delay(3000);
  lcd.clear();
}

void loop()
{
  data = analogRead(gasValue);
  Serial.print("Gas Level: ");
  Serial.println(data);
  lcd.print ("Gas Scan is ON");
}
```

```
gas | Arduino 1.8.18
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gas $
lcd.setCursor(0,1);
lcd.print("Gas Level: ");
lcd.print(data);
delay(1000);

if ( data > 90) //
{
    digitalWrite(buzzer, HIGH);
    SendMessage();
    Serial.print("Gas detect alarm");
    lcd.clear();
    lcd.setCursor(0,0);
    lcd.print("Gas Level Exceed");
    lcd.setCursor(0,1);
    lcd.print("SMS Sent");

    delay(1000);
}
else
{
    digitalWrite(buzzer, LOW);
    Serial.print("Gas Level Low");
    lcd.clear();
    lcd.setCursor(0,0);
    lcd.print("Gas Level Normal");

    delay(1000);
}

lcd.clear();
}
```