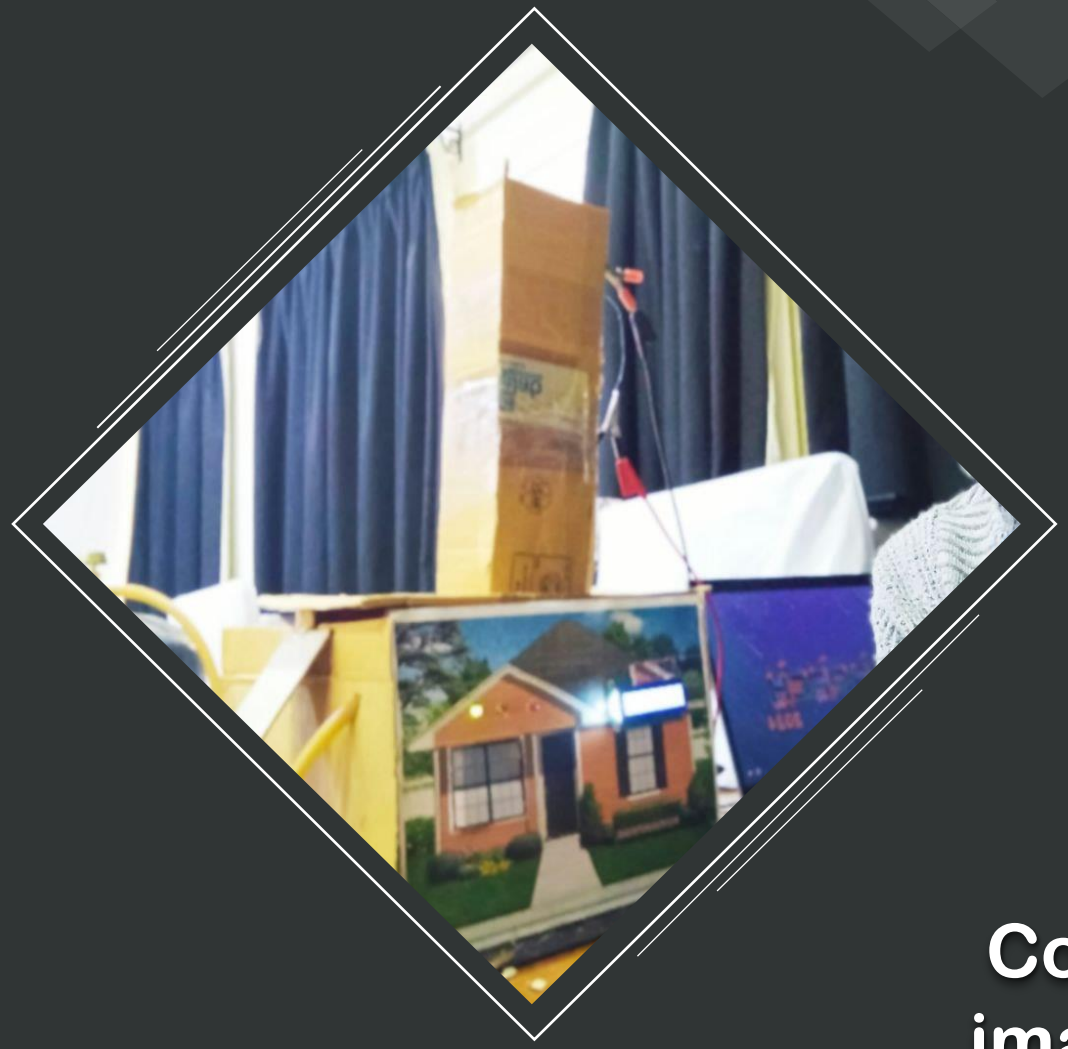


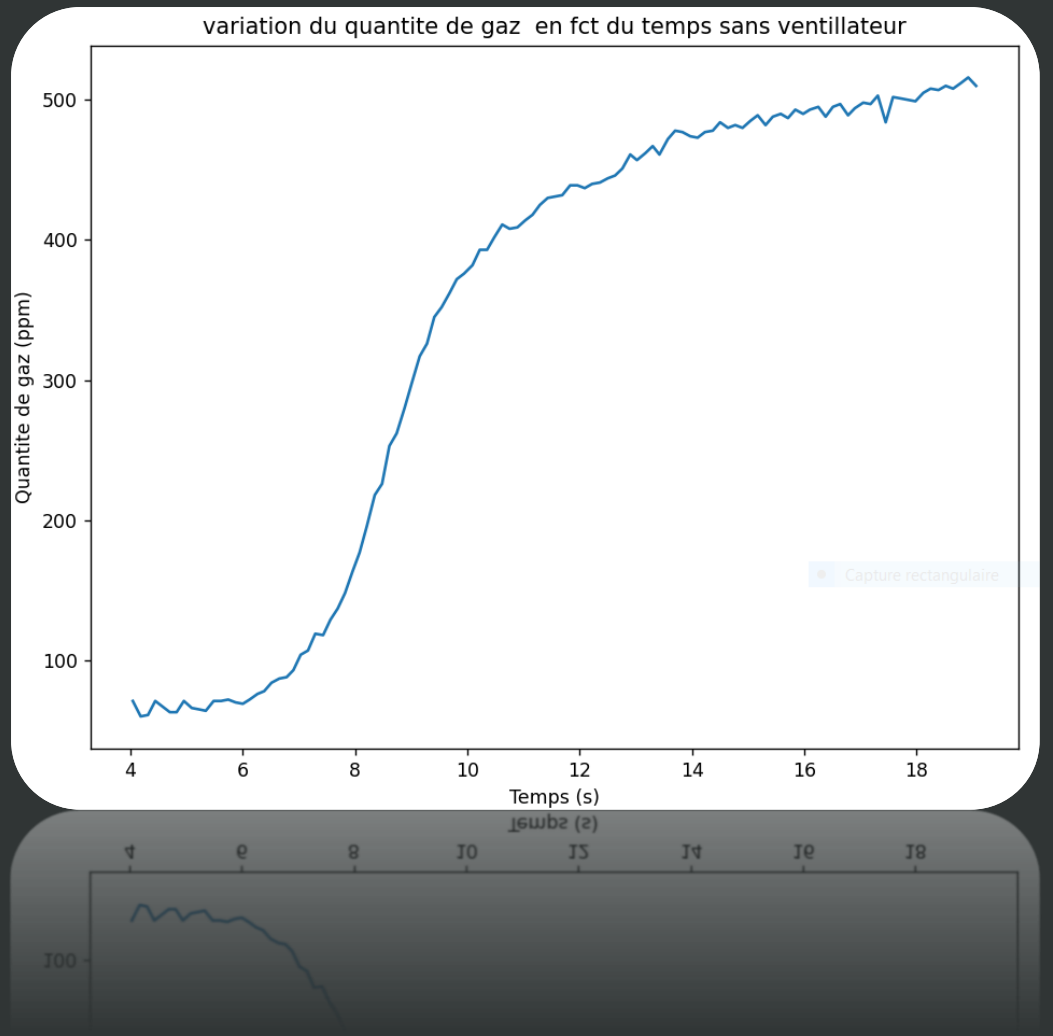
Annexe

Collection des
images & video
du Smart Detector

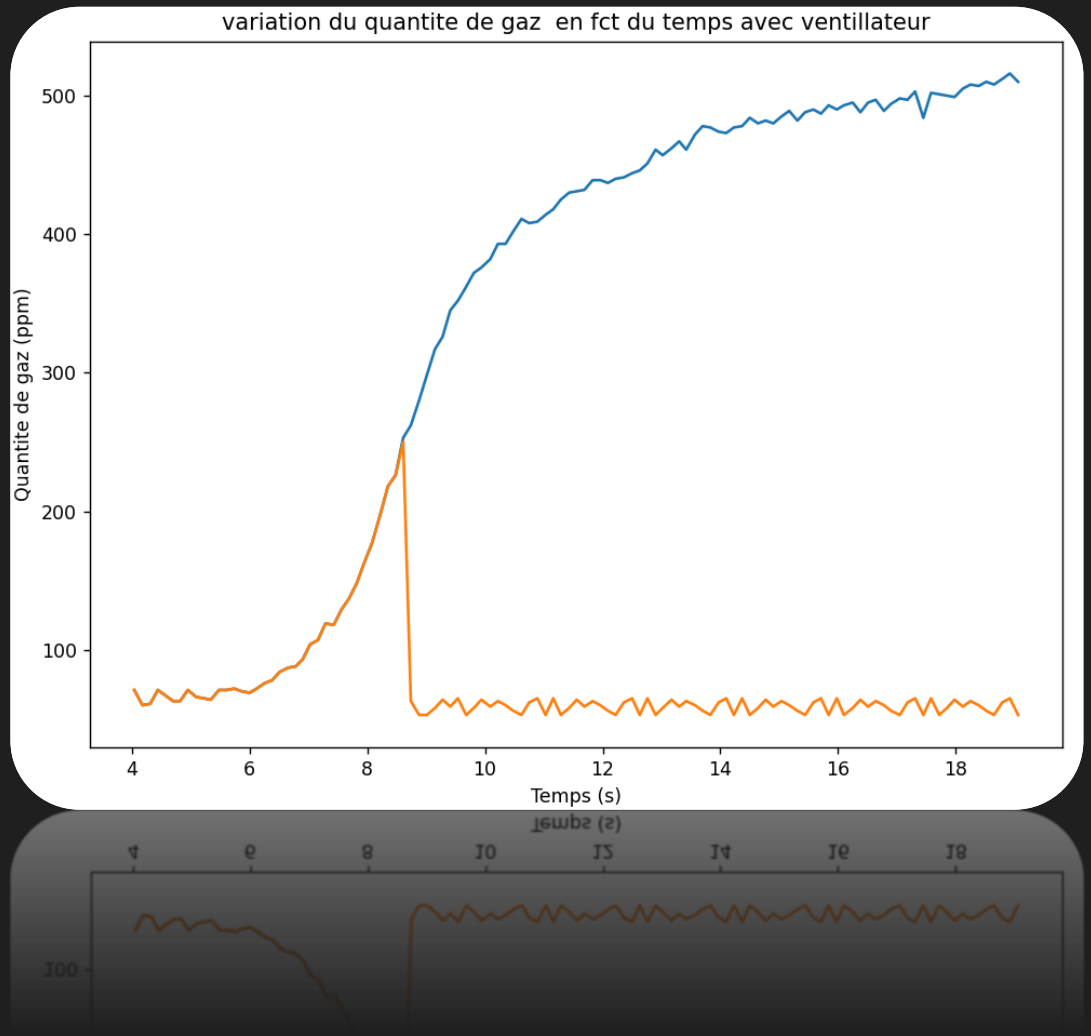
AMIIX_PRINCE

https://www.instagram.com/amiix_prince/

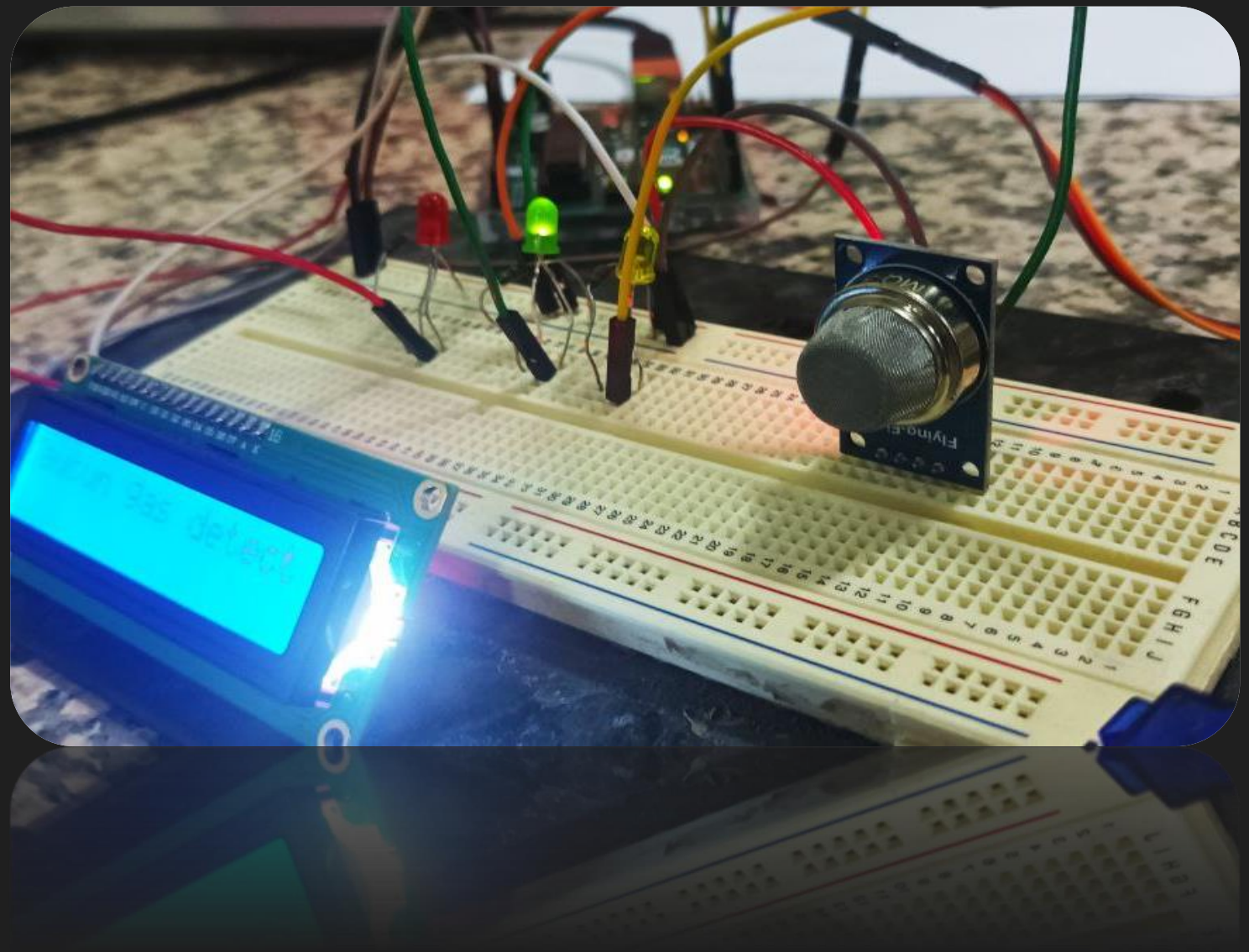
```python
import datetime
import matplotlib.pyplot as plt
valeurs_temps = ['18:29:39.06', '18:29:38.92', '18:29:38.79', '18:29:38.65',
'18:29:38.52',
    '18:29:38.39', '18:29:38.25', '18:29:38.12', '18:29:37.98', '18:29:37.85',
    '18:29:37.72', '18:29:37.58', '18:29:37.45', '18:29:37.31', '18:29:37.18',
    '18:29:37.05', '18:29:36.90', '18:29:36.78', '18:29:36.64', '18:29:36.51',
    '18:29:36.38', '18:29:36.25', '18:29:36.10', '18:29:35.98', '18:29:35.84',
    '18:29:35.71', '18:29:35.58', '18:29:35.44', '18:29:35.31', '18:29:35.17',
    '18:29:35.04', '18:29:34.90', '18:29:34.77', '18:29:34.64', '18:29:34.50',
    '18:29:34.37', '18:29:34.23', '18:29:34.10', '18:29:33.97', '18:29:33.83',
    '18:29:33.70', '18:29:33.57', '18:29:33.42', '18:29:33.30', '18:29:33.17',
    '18:29:33.02', '18:29:32.90', '18:29:32.76', '18:29:32.63', '18:29:32.50',
    '18:29:32.36', '18:29:32.22', '18:29:32.09', '18:29:31.96', '18:29:31.83',
    '18:29:31.69', '18:29:31.56', '18:29:31.43', '18:29:31.29', '18:29:31.16',
    '18:29:31.03', '18:29:30.89', '18:29:30.75', '18:29:30.62', '18:29:30.48',
    '18:29:30.35', '18:29:30.22', '18:29:30.09', '18:29:29.94', '18:29:29.81',
    '18:29:29.68', '18:29:29.54', '18:29:29.41', '18:29:29.28', '18:29:29.15',
    '18:29:29.01', '18:29:28.88', '18:29:28.74', '18:29:28.61', '18:29:28.48',
    '18:29:28.35', '18:29:28.21', '18:29:28.08', '18:29:27.95', '18:29:27.82',
    '18:29:27.69', '18:29:27.56', '18:29:27.43', '18:29:27.29', '18:29:27.16',
    '18:29:27.03', '18:29:26.90', '18:29:26.78', '18:29:26.65', '18:29:26.51',
    '18:29:26.38', '18:29:26.26', '18:29:26.12', '18:29:26.00', '18:29:25.87',
    '18:29:25.74', '18:29:25.61', '18:29:25.48', '18:29:25.34', '18:29:25.22',
    '18:29:25.09', '18:29:24.95', '18:29:24.82', '18:29:24.70', '18:29:24.57',
    '18:29:24.44', '18:29:24.31', '18:29:24.18', '18:29:24.04']
valeurs = [
    510, 516,512, 508, 510, 507, 508, 505, 499, 500, 501, 502, 484, 503, 497, 498,
    494, 489, 497, 495, 488, 495, 493, 490, 493, 487, 490, 488, 482, 489, 485, 480,
    482, 480, 484, 478, 477, 473, 474, 477, 478, 472, 461, 467, 462, 457, 461, 451,
    446, 444, 441, 440, 437, 439, 439, 432, 431, 430, 425, 418, 414, 409, 408, 411,
    402, 393, 393, 382, 376, 372, 362, 352, 345, 326, 317, 298, 280, 262, 253, 226,
    218, 196, 177, 163, 148, 137, 129, 118, 119, 107, 104, 93, 88, 87, 84, 78, 76,
    72, 69, 70, 72, 71, 71, 64, 65, 66, 71, 63, 63, 67, 71, 61, 60, 71]

valeurs_temps_secondes = []
for valeur_temps in valeurs_temps:
    temps = datetime.datetime.strptime(valeur_temps, '%H:%M:%S.%f')
    temps_secondes =temps.second + temps.microsecond / 1e6 -20
    valeurs_temps_secondes.append(temps_secondes)

valeurs_temps_secondes_inverse= valeurs_temps_secondes[::-1]  # Inversion de la
liste temps
valeurs_inverse = valeurs[::-1]  # Inversion de la liste temps

plt.plot(valeurs_temps_secondes_inverse, valeurs_inverse,)
plt.xlabel('Temps (s)')
plt.ylabel('Quantite de gaz (ppm)')
plt.title('variation du quantite de gaz  en fct du temps avec ventillateur')
plt.show()
```



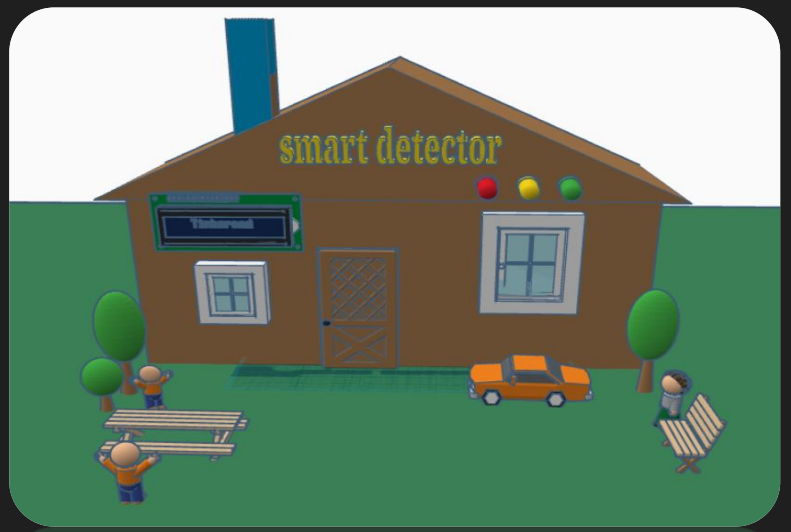
```python
import datetime
import matplotlib.pyplot as plt
valeurs_temps = ['18:29:39.06', '18:29:38.92', '18:29:38.79', '18:29:38.65', '18:29:38.52',
    '18:29:38.39', '18:29:38.25', '18:29:38.12', '18:29:37.98', '18:29:37.85',
    '18:29:37.72', '18:29:37.58', '18:29:37.45', '18:29:37.31', '18:29:37.18',
    '18:29:37.05', '18:29:36.90', '18:29:36.78', '18:29:36.64', '18:29:36.51',
    '18:29:36.38', '18:29:36.25', '18:29:36.10', '18:29:35.98', '18:29:35.84',
    '18:29:35.71', '18:29:35.58', '18:29:35.44', '18:29:35.31', '18:29:35.17',
    '18:29:35.04', '18:29:34.90', '18:29:34.77', '18:29:34.64', '18:29:34.50',
    '18:29:34.37', '18:29:34.23', '18:29:34.10', '18:29:33.97', '18:29:33.83',
    '18:29:33.70', '18:29:33.57', '18:29:33.42', '18:29:33.30', '18:29:33.17',
    '18:29:33.02', '18:29:32.90', '18:29:32.76', '18:29:32.63', '18:29:32.50',
    '18:29:32.36', '18:29:32.22', '18:29:32.09', '18:29:31.96', '18:29:31.83',
    '18:29:31.69', '18:29:31.56', '18:29:31.43', '18:29:31.29', '18:29:31.16',
    '18:29:31.03', '18:29:30.89', '18:29:30.75', '18:29:30.62', '18:29:30.48',
    '18:29:30.35', '18:29:30.22', '18:29:30.09', '18:29:29.94', '18:29:29.81',
    '18:29:29.68', '18:29:29.54', '18:29:29.41', '18:29:29.28', '18:29:29.15',
    '18:29:29.01', '18:29:28.88', '18:29:28.74', '18:29:28.61', '18:29:28.48',
    '18:29:28.35', '18:29:28.21', '18:29:28.08', '18:29:27.95', '18:29:27.82',
    '18:29:27.69', '18:29:27.56', '18:29:27.43', '18:29:27.29', '18:29:27.16',
    '18:29:27.03', '18:29:26.90', '18:29:26.78', '18:29:26.65', '18:29:26.51',
    '18:29:26.38', '18:29:26.26', '18:29:26.12', '18:29:26.00', '18:29:25.87',
    '18:29:25.74', '18:29:25.61', '18:29:25.48', '18:29:25.34', '18:29:25.22',
    '18:29:25.09', '18:29:24.95', '18:29:24.82', '18:29:24.70', '18:29:24.57',
    '18:29:24.44', '18:29:24.31', '18:29:24.18', '18:29:24.04']
valeurs = [
    510, 516,512, 508, 510, 507, 508, 505, 499, 500, 501, 502, 484, 503, 497, 498,
    494, 489, 497, 495, 488, 495, 493, 490, 493, 487, 490, 488, 482, 489, 485, 480,
    482, 480, 484, 478, 477, 473, 474, 477, 478, 472, 461, 467, 462, 457, 461, 451,
    446, 444, 441, 440, 437, 439, 439, 432, 431, 430, 425, 418, 414, 409, 408, 411,
    402, 393, 393, 382, 376, 372, 362, 352, 345, 326, 317, 298, 280, 262, 253, 226,
    218, 196, 177, 163, 148, 137, 129, 118, 119, 107, 104, 93, 88, 87, 84, 78, 76,
    72, 69, 70, 72, 71, 71, 64, 65, 66, 71, 63, 63, 67, 71, 61, 60, 71]

valeur = [ 53, 65, 62, 53, 56, 60, 63, 59, 64, 58, 53, 65,53, 65, 62, 53, 56, 60, 63, 59, 64, 58, 53, 65
    , 53, 65, 62, 53, 56, 60, 63, 59, 64, 58, 53, 65,53, 65, 62, 53, 56, 60, 63, 59, 64, 58, 53, 65,
    53, 65, 62, 53, 56, 60, 63, 59, 64, 58, 53, 65, 53, 65, 62, 53, 56, 60, 63, 59, 64, 58, 53, 65
    ,59, 64, 58, 53, 53, 63, 250, 226,
    218, 196, 177, 163, 148, 137, 129, 118, 119, 107, 104, 93, 88, 87, 84, 78, 76,
    72, 69, 70, 72, 71, 71, 64, 65, 66, 71, 63, 63, 67, 71, 61, 60, 71]

valeurs_temps_secondes = []
for valeur_temps in valeurs_temps:
    temps = datetime.datetime.strptime(valeur_temps, '%H:%M:%S.%f')
    temps_secondes =temps.second + temps.microsecond / 1e6 -20
    valeurs_temps_secondes.append(temps_secondes)

valeurs_temps_secondes_inverse= valeurs_temps_secondes[::-1]  # Inversion de la liste temps
valeurs_inverse = valeurs[::-1]  # Inversion de la liste temps
valeur_inverse = valeur[::-1]

plt.plot(valeurs_temps_secondes_inverse, valeurs_inverse,)
plt.plot(valeurs_temps_secondes_inverse, valeur_inverse)
plt.xlabel('Temps (s)')
plt.ylabel('Quantite de gaz (ppm)')
plt.title('variation du quantite de gaz  en fct du temps avec ventillateur')
plt.show()
```



```arduino
#include <MQUnifiedsensor.h>
#include <MQ5.h>
#include <LiquidCrystal_I2C.h>

int redled = 2;
int greenled = 3;
int yellowled = 4;
int sensor = A0;
int sensorThresh = 500;
int sensormoyenn = 250;
LiquidCrystal_I2C lcd_1(0x27, 16, 2);

void setup() {
  lcd_1.begin();
  lcd_1.print("    welcome   ");
  lcd_1.setCursor(0, 1);
  lcd_1.print(" to smart detector");
  pinMode(redled, OUTPUT);
  pinMode(greenled, OUTPUT);
  pinMode(yellowled, OUTPUT);
  pinMode(sensor, INPUT);
  Serial.begin(9600);
}

void loop() {
  int analogValue = analogRead(sensor);
  Serial.println(analogValue);
  if (analogValue > sensorThresh) {
    lcd_1.clear();
    lcd_1.print("Dangereux!!!");
    lcd_1.setCursor(0, 1);
    lcd_1.print(analogValue);
    digitalWrite(redled, HIGH);
    digitalWrite(greenled, LOW);
    digitalWrite(yellowled, LOW);
  }
  if (analogValue > sensormoyenn and analogValue < sensorThresh) {
    lcd_1.clear();
    lcd_1.print("l'environnement!!");
    lcd_1.setCursor(0, 1);
    lcd_1.print(analogValue);
    digitalWrite(yellowled, HIGH);
    digitalWrite(greenled, LOW);
    digitalWrite(redled, LOW);
    }
  } else {
    lcd_1.clear();
    lcd_1.print("aucun gas detecte");
    lcd_1.setCursor(0, 1);
    lcd_1.print(analogValue);
    digitalWrite(yellowled, LOW);
    digitalWrite(greenled, HIGH);
    digitalWrite(redled, LOW);
    }
  }
}
```



```ino
#include <MQUnifiedsensor.h>
#include <MQ5.h>
#include <LiquidCrystal_I2C.h>
#include <Servo.h>
#include <SoftwareSerial.h>

SoftwareSerial sim(10, 11);
String number = "+212675105556"; //-> change with your number
int redled = 2;
int greenled = 3;
int yellowled = 4;
int sensor = A0;
int sensorThresh = 500;
int sensormoyenn = 250;
int fan = 11;
int pos = 0;
Servo servo_9;
LiquidCrystal_I2C lcd_1(0x27, 16, 2);

void setup() {
  lcd_1.begin();
  lcd_1.print("    welcome   ");
  lcd_1.setCursor(0, 1);
  lcd_1.print(" to smart detector");
  _buffer.reserve(50);
  sim.begin(9600);
  delay(1);
  servo_9.attach(9, 500, 2500);
  pinMode(redled, OUTPUT);
  pinMode(greenled, OUTPUT);
  pinMode(yellowled, OUTPUT);
  pinMode(fan, OUTPUT);
  pinMode(sensor, INPUT);
  Serial.begin(9600);
}

void loop() {
  int analogValue = analogRead(sensor);
  Serial.println(analogValue);
  if (analogValue > sensorThresh) {
    lcd_1.clear();
    lcd_1.print("Dangereux!!!");
    lcd_1.setCursor(0, 1);
    lcd_1.print(analogValue);
    digitalWrite(redled, HIGH);
    digitalWrite(greenled, LOW);
    digitalWrite(yellowled, LOW);
    digitalWrite(fan, HIGH);
    SendMessage();
    callNumber();

    for (pos = 0; pos <= 90; pos += 1) {
      // tell servo to go to position in variable 'pos'
      servo_9.write(pos);
      // wait 15 ms for servo to reach the position
      delay(1);  // Wait for 15 millisecond(s)
    }
  }
  if (analogValue > sensormoyenn and analogValue < sensorThresh) {
    lcd_1.clear();
    lcd_1.print("l'environnement!!");
    lcd_1.setCursor(0, 1);
    lcd_1.print(analogValue);
    digitalWrite(yellowled, HIGH);
    digitalWrite(greenled, LOW);
    digitalWrite(redled, LOW);
    digitalWrite(fan, HIGH);
    SendMessage();
    callNumber();

    for (pos = 90; pos >= 0; pos -= 1) {
      // tell servo to go to position in variable 'pos'
      servo_9.write(pos);
      // wait 15 ms for servo to reach the position
      delay(1);  // Wait for 1 millisecond(s)
    }
  }
  else {

    lcd_1.clear();
    lcd_1.print("aucun gas detecte");
    lcd_1.setCursor(0, 1);
    lcd_1.print(analogValue);
    digitalWrite(yellowled, LOW);
    digitalWrite(greenled, HIGH);
    digitalWrite(redled, LOW);
    digitalWrite(fan, LOW);
    }
  }

void SendMessage()
{
  //Serial.println ("Sending Message");
  sim.println("AT+CMGF=1");    //Sets the GSM Module in Text Mode
  delay(200);
  //Serial.println ("Set SMS Number");
  sim.println("AT+CMGS=\"" + number + "\"\r"); //Mobile phone number to send message
  delay(200);
  String SMS = "Gas Detect";
  sim.println(SMS);
  delay(100);
  sim.println((char)26);// ASCII code of CTRL+Z
  delay(200);
}

void callNumber() {
  sim.print (F("ATD"));
  sim.print (number);
  sim.print (F(";\r\n"));

}
```



Tout | Non payé (0) | En cours (0) | Expédié (0) | **Terminé** | Commandes supprimées

Commande | No de commande, produit ou vendeur | Tout

Terminé

Commande passée le: 23 nov. 2022
Numéro de commande: 8158298673178191 Copier

Détails de la commande

[redacted]

MQ-5 Module

MQ-2 MQ-3 MQ-4 MQ-5 MQ-6 MQ-7 MQ-8 MQ-9 MQ-135 Detection Sm...

MQ-5

US $0.73 x1

Total:US $3.61

Ajouter au panier

Supprimer

Terminé

Commande passée le: 23 nov. 2022
Numéro de commande: 8158298673198191 Copier

Détails de la commande

[redacted]ore

1pcs keyestudio 9G MINI SG90 90 degrees Servo Motor Blue with PH2.5...

US $2.99 x1

Total:US $4.45

Ajouter au panier

Supprimer

Terminé

Commande passée le: 23 nov. 2022
Numéro de commande: 8158298673218191 Copier

Détails de la commande

[redacted]

New SIM800L GPRS GSM Module w/ PCB Antenna SIM Board Quad ban...

Glue stick antenna

US $3.68 x1

Total:US $6.44

Ajouter au panier

Supprimer

Terminé

Commande passée le: 23 nov. 2022
Numéro de commande: 8158298673238191 Copier

Détails de la commande

TE[redacted]

LCD1602+I2C Module Blue / Yellow Green Screen 16x2 Character LCD ...

LCD1602 Blue I2C

US $1.95 x1

Total:US $3.71

Ajouter au panier

Supprimer

TOTALE **182,1 DH**