**Code(.ino):**

**#include <Adafruit\_Sensor.h>**

**#include <DHT.h>**

**#include <LiquidCrystal\_I2C.h>**

**#define DHT11PIN 2 // DATA -> Pin 2**

**#define VENTILATEUR\_PIN 3 // Pin for Fan**

**#define DHTTYPE DHT11 // DHT 11**

**LiquidCrystal\_I2C lcd(0x27, 20, 4);**

**DHT dht(DHT11PIN, DHTTYPE);**

**void setup() {**

**pinMode(VENTILATEUR\_PIN, OUTPUT); // Set fan pin as output**

**lcd.begin();**

**lcd.backlight();**

**dht.begin();**

**}**

**void loop() {**

**// Reading temperature or humidity takes about 250 milliseconds!**

**// Sensor readings may also be up to 2 seconds 'old' (its a very slow sensor)**

**float h = dht.readHumidity();**

**float t = dht.readTemperature();**

**// Check if any reads failed and exit early (to try again).**

**if (isnan(h) || isnan(t)) {**

**lcd.clear();**

**lcd.setCursor(0, 0);**

**lcd.print("Failed to read");**

**lcd.setCursor(0, 1);**

**lcd.print("from DHT sensor!");**

**return;**

**}**

**lcd.clear();**

**lcd.setCursor(0, 0);**

**lcd.print("Temp: ");**

**lcd.print(t);**

**lcd.print((char)223); // Degree symbol**

**lcd.print("C");**

**lcd.setCursor(0, 1);**

**lcd.print("Humi: ");**

**lcd.print(h);**

**lcd.print("%");**

**if (t > 25) {**

**digitalWrite(VENTILATEUR\_PIN, HIGH); // Turn on the fan**

**} else {**

**digitalWrite(VENTILATEUR\_PIN, LOW); // Turn off the fan**

**}**

**delay(1000);**

**}**