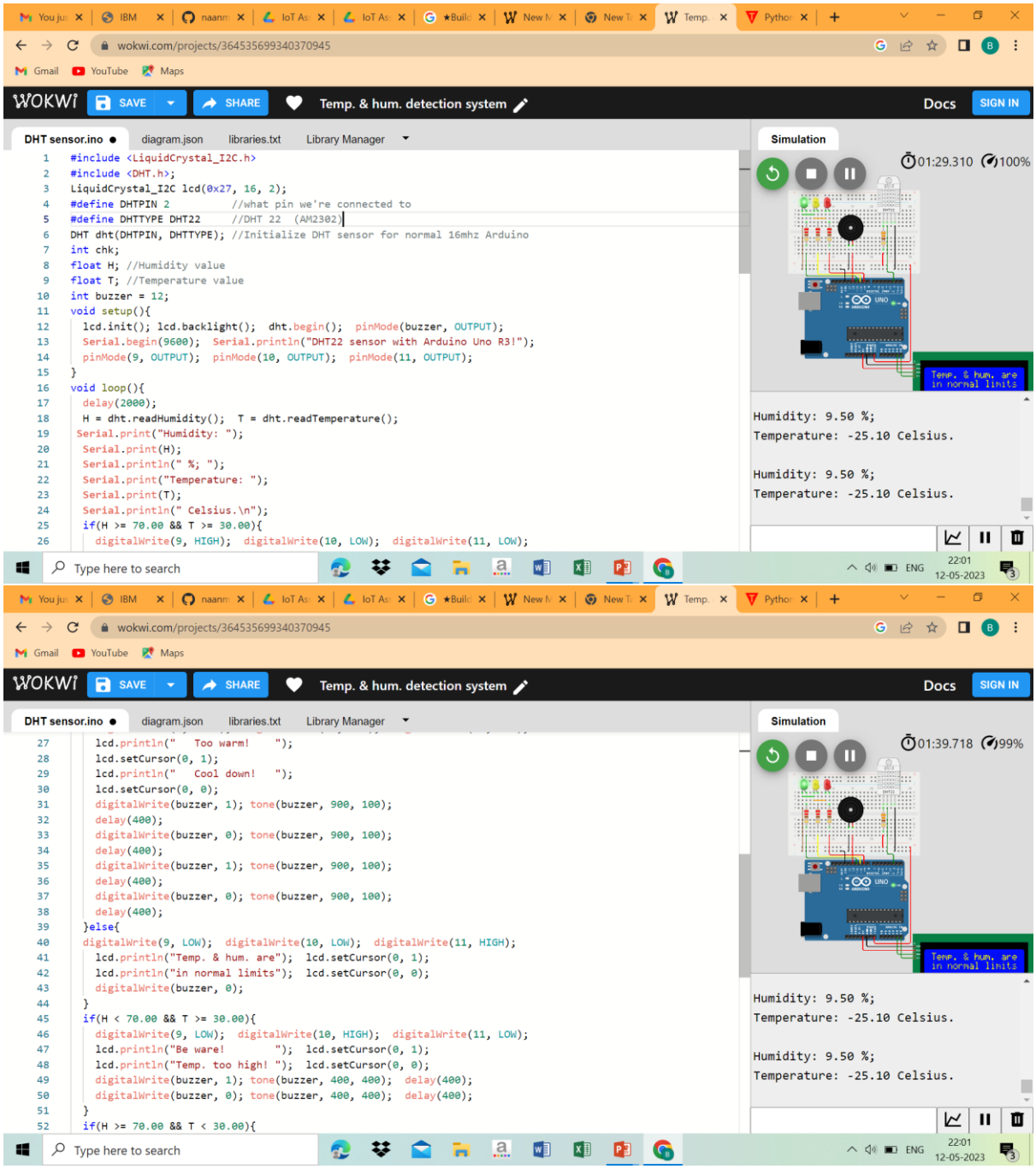
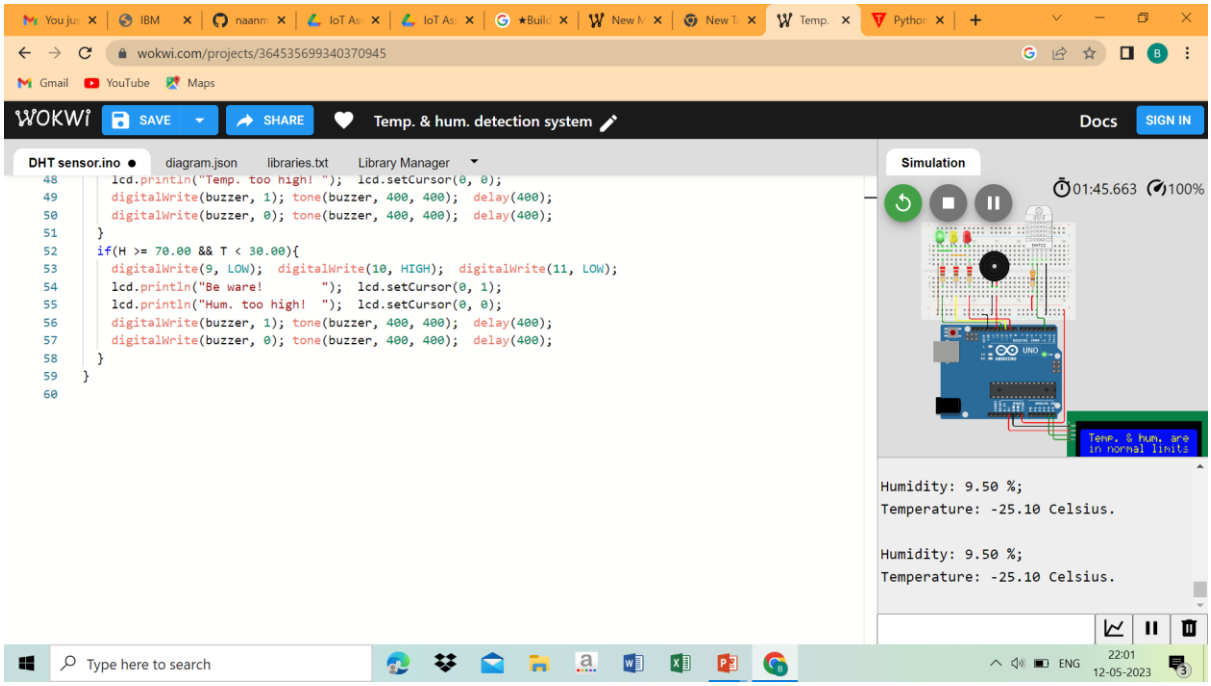



```
#include <LiquidCrystal_I2C.h>
#include <DHT.h>;
LiquidCrystal_I2C lcd(0x27, 16, 2);
#define DHTPIN 2          //what pin we're connected to
#define DHTTYPE DHT22     //DHT 22  (AM2302)
DHT dht(DHTPIN, DHTTYPE); //Initialize DHT sensor for normal 16mhz Arduino
int chk;
float H; //Humidity value
float T; //Temperature value
int buzzer = 12;
void setup(){
  lcd.init(); lcd.backlight();  dht.begin();  pinMode(buzzer, OUTPUT);
  Serial.begin(9600);  Serial.println("DHT22 sensor with Arduino Uno R3!");
  pinMode(9, OUTPUT);  pinMode(10, OUTPUT);  pinMode(11, OUTPUT);
}
void loop(){
  delay(2000);
  H = dht.readHumidity();  T = dht.readTemperature();
 Serial.print("Humidity: ");
  Serial.print(H);
  Serial.println(" %; ");
  Serial.print("Temperature: ");
  Serial.print(T);
  Serial.println(" Celsius.\n");
  if(H >= 70.00 && T >= 30.00){
    digitalWrite(9, HIGH);  digitalWrite(10, LOW);  digitalWrite(11, LOW);
    lcd.println("   Too warm!    ");
    lcd.setCursor(0, 1);
    lcd.println("   Cool down!   ");
    lcd.setCursor(0, 0);
    digitalWrite(buzzer, 1); tone(buzzer, 900, 100);
    delay(400);
    digitalWrite(buzzer, 0); tone(buzzer, 900, 100);
    delay(400);
    digitalWrite(buzzer, 1); tone(buzzer, 900, 100);
    delay(400);
    digitalWrite(buzzer, 0); tone(buzzer, 900, 100);
    delay(400);
  }else{
  digitalWrite(9, LOW);  digitalWrite(10, LOW);  digitalWrite(11, HIGH);
    lcd.println("Temp. & hum. are");  lcd.setCursor(0, 1);
    lcd.println("in normal limits");  lcd.setCursor(0, 0);
    digitalWrite(buzzer, 0);
  }
  if(H < 70.00 && T >= 30.00){
    digitalWrite(9, LOW);  digitalWrite(10, HIGH);  digitalWrite(11, LOW);
    lcd.println("Be ware!       ");  lcd.setCursor(0, 1);
    lcd.println("Temp. too high! ");  lcd.setCursor(0, 0);
    digitalWrite(buzzer, 1); tone(buzzer, 400, 400);  delay(400);
    digitalWrite(buzzer, 0); tone(buzzer, 400, 400);  delay(400);
  }
  if(H >= 70.00 && T < 30.00){
```


wokwi.com/projects/364535699340370945
WOKWI
SAVE
SHARE
Temp. & hum. detection system
Docs
SIGN IN
DHT sensor.ino
diagram.json
libraries.txt
Library Manager
lcd.println("Temp. too high! "); lcd.setCursor(0, 0);
digitalWrite(buzzer, 1); tone(buzzer, 400, 400); delay(400);
digitalWrite(buzzer, 0); tone(buzzer, 400, 400); delay(400);
}
if(H >= 70.00 && T < 30.00){
digitalWrite(9, LOW); digitalWrite(10, HIGH); digitalWrite(11, LOW);
lcd.println("Be ware! "); lcd.setCursor(0, 1);
lcd.println("Hum. too high! "); lcd.setCursor(0, 0);
digitalWrite(buzzer, 1); tone(buzzer, 400, 400); delay(400);
digitalWrite(buzzer, 0); tone(buzzer, 400, 400); delay(400);
}
}
Simulation
01:45.663
100%
Temp. & hum. are in normal limits
Humidity: 9.50 %;
Temperature: -25.10 Celsius.
Humidity: 9.50 %;
Temperature: -25.10 Celsius.
Type here to search
ENG
22:01
12-05-2023