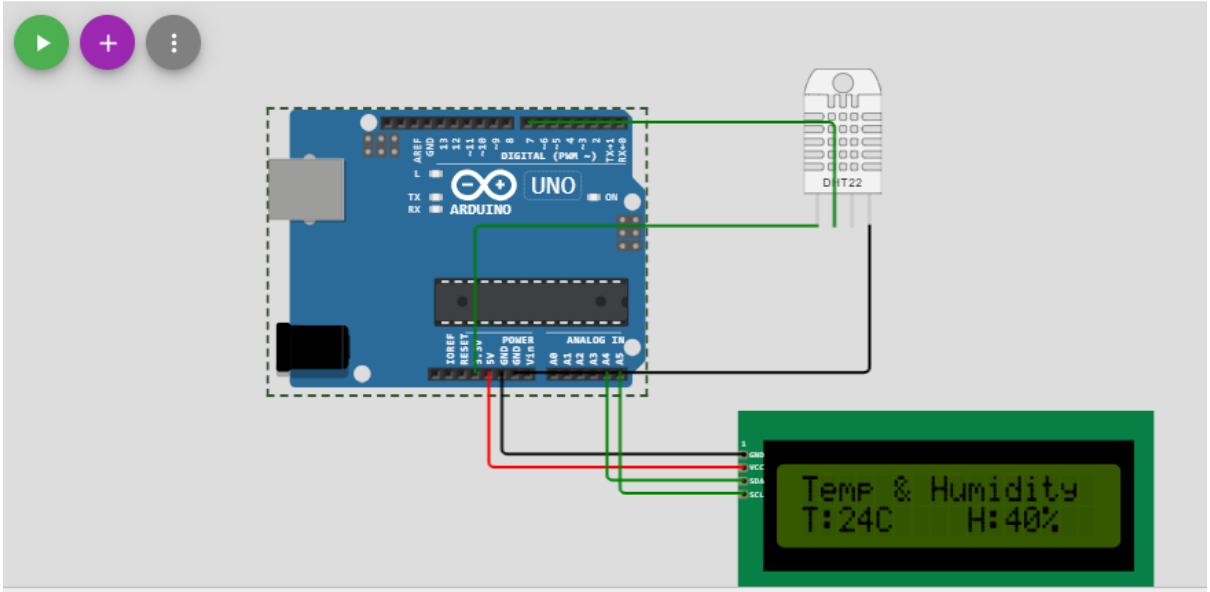
```
//setup
//LCD :gnd-gnd , vcc-5v ,SDA-A4 , SLC-A5
//DHT :1-3.3v , 2-7pin ,4-gnd



//Libraries

#include <DHT.h>;

#include <LiquidCrystal_I2C.h>

#include <Wire.h>



LiquidCrystal_I2C lcd(0x27,16,2);



//Constants

#define DHTPIN 7     // what pin we're connected to

#define DHTTYPE DHT22  // DHT 22

DHT dht(DHTPIN, DHTTYPE); //// Initialize DHT sensor for normal 16mhz Arduino
```

```
//Variables

int h;  //Stores humidity value

int t; //Stores temperature value



void setup() {

   Serial.begin(9600);

   Serial.println("Temperature and Humidity Sensor Test");

   dht.begin();

   lcd.init(); //initialize the lcd

   lcd.backlight(); //open the backlight

}



void loop() {

   //Read data and store it to variables h (humidity) and t (temperature)

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

```
    h = dht.readHumidity();

    t = dht.readTemperature();



    //Print temp and humidity values to serial monitor

    Serial.print("Humidity: ");

    Serial.print(h);

    Serial.print(" %, Temp: ");

    Serial.print(t);

    Serial.println(" ° Celsius");



// set the cursor to (0,0):

// print from 0 to 9:

    lcd.setCursor(0, 0);

    lcd.println("Temp & Humidity");



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

```
    lcd.print("T:");

    lcd.print(t);

    lcd.print("C");



    lcd.setCursor(6, 1);

    lcd.setCursor(9, 1);

    lcd.print("H:");

    lcd.print(h);

    lcd.print("%");



  delay(1000); //Delay 1 sec.



}
```




```
Humidity: 40 %, Temp: 24 ° Celsius
Humidity: 40 %, Temp: 24 ° Celsius
Humidity: 40 %, Temp: 24 ° Celsius
Humidity: 40 %, Temp: 24 ° Celsius
Humidity: 40 %, Temp: 24 ° Celsius
Humidity: 40 %, Temp: 24 ° Celsius
Humidity: 40 %, Temp: 24 ° Celsius
```