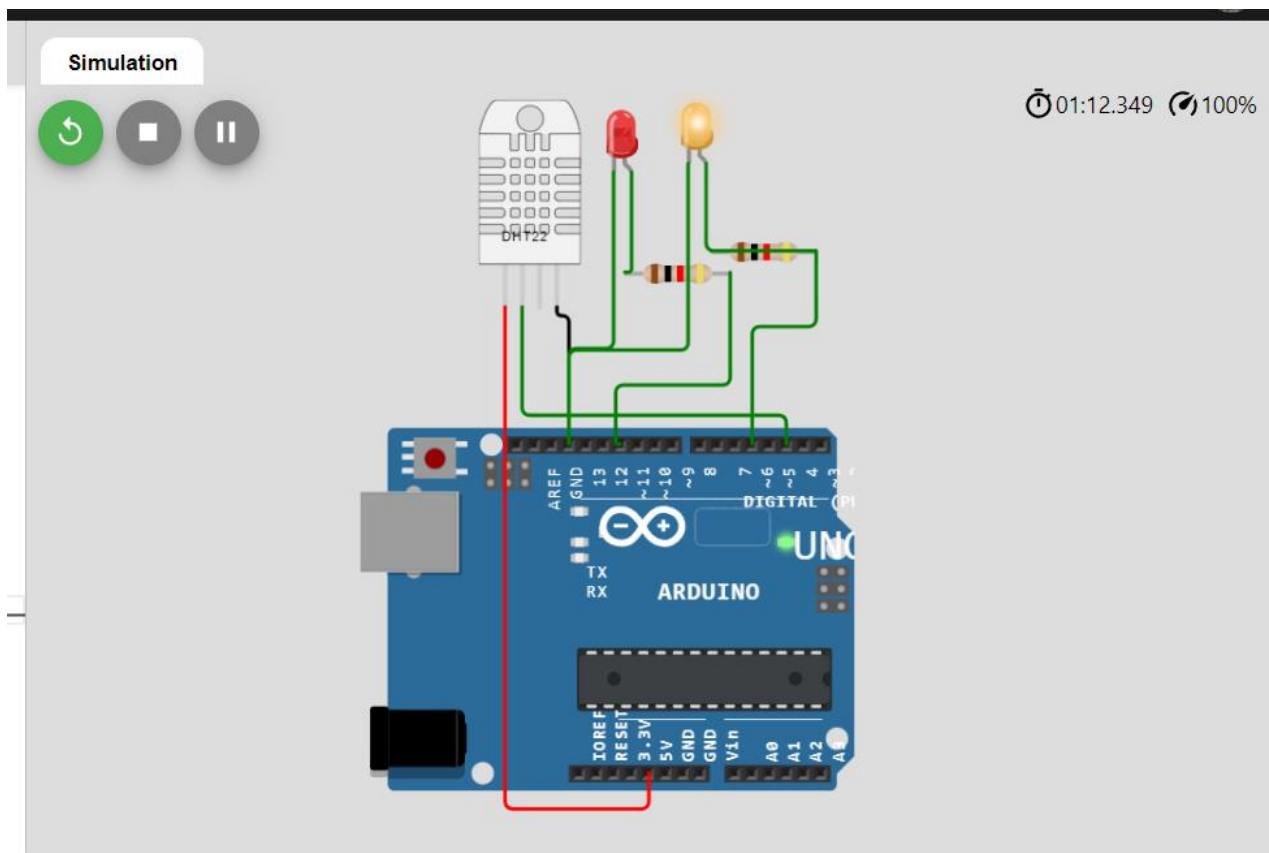


DATE	7 TH NOVEMBER 2022
TEAM ID	PNT2022TMID36762
PROJECT NAME	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

Display the temperature and humidity value:

Submitted by: Kamatchi soniya, Beena sherin, Vishali, Yamini, Jayasri

Wowki link : <https://wowki.com/projects/348600212589118035>



Program :

```
#include "DHT.h"
```

```
#define DHTPIN 2
```

```
#define DHTTYPE DHT22
```

```
#define YELLOW 4

#define RED 11

DHT dht(DHTPIN, DHTTYPE);


void setup() {
    Serial.begin(115200);
    pinMode(YELLOW,OUTPUT);
    pinMode(RED,OUTPUT);
    delay(1000);
    Serial.println();
    dht.begin();
}


void loop() {

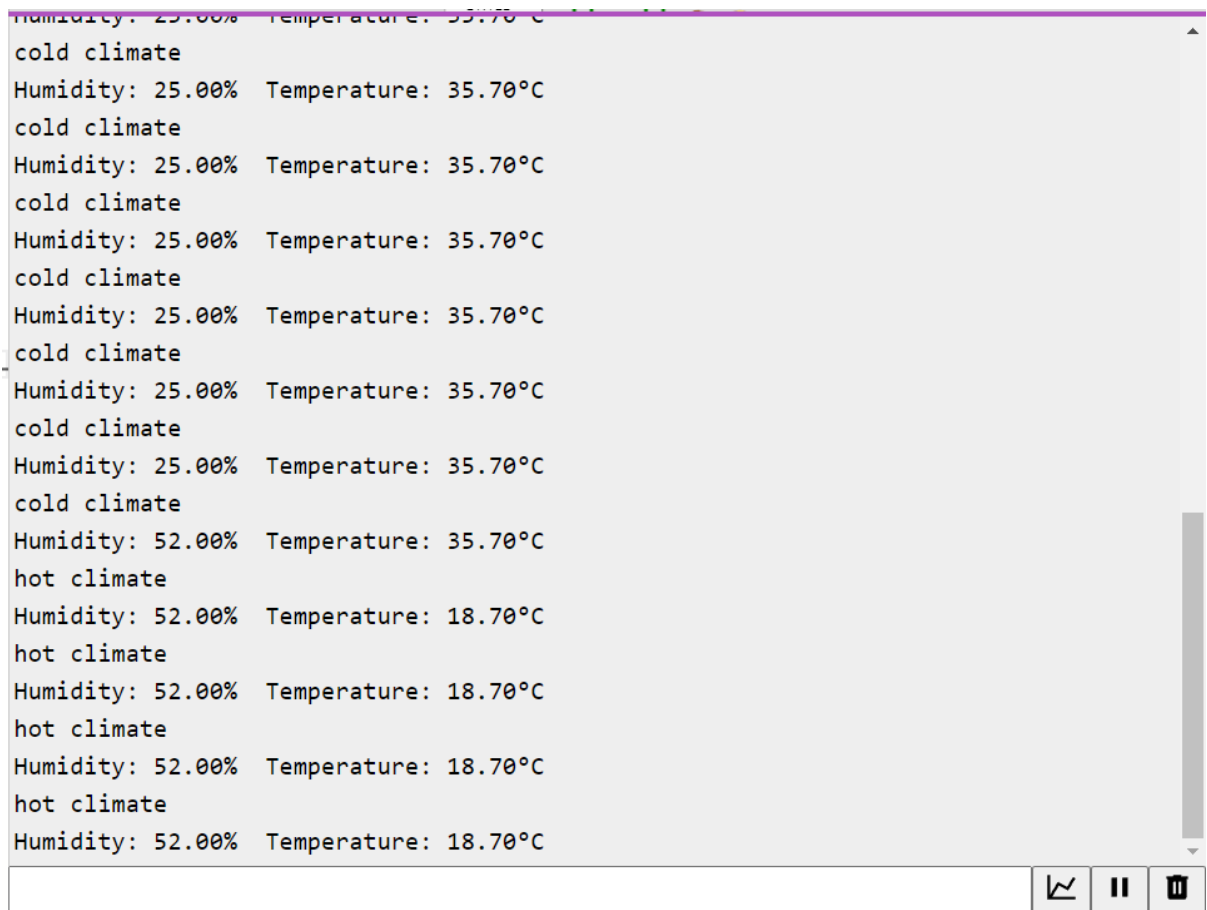
    float temperature = dht.readTemperature();
    float humidity = dht.readHumidity();


    if (temperature <30 | humidity >55) {
        Serial.println("hot climate");
        digitalWrite(RED,HIGH);
        digitalWrite(YELLOW,LOW);
    }
    else
    {
        Serial.println("cold climate");
        digitalWrite(YELLOW,HIGH);
        digitalWrite(RED,LOW);
    }

}
```

```
Serial.print(F("Humidity: "));  
Serial.print(humidity);  
Serial.print(F("% Temperature: "));  
Serial.print(temperature);  
Serial.println(F("°C "));  
delay(5000);  
}
```

Output :



```
Humidity: 25.00% Temperature: 35.70°C  
cold climate  
Humidity: 25.00% Temperature: 35.70°C  
cold climate  
Humidity: 25.00% Temperature: 35.70°C  
cold climate  
Humidity: 25.00% Temperature: 35.70°C  
cold climate  
Humidity: 25.00% Temperature: 35.70°C  
cold climate  
Humidity: 25.00% Temperature: 35.70°C  
cold climate  
Humidity: 52.00% Temperature: 35.70°C  
hot climate  
Humidity: 52.00% Temperature: 18.70°C  
hot climate  
Humidity: 52.00% Temperature: 18.70°C  
hot climate  
Humidity: 52.00% Temperature: 18.70°C  
hot climate  
Humidity: 52.00% Temperature: 18.70°C
```