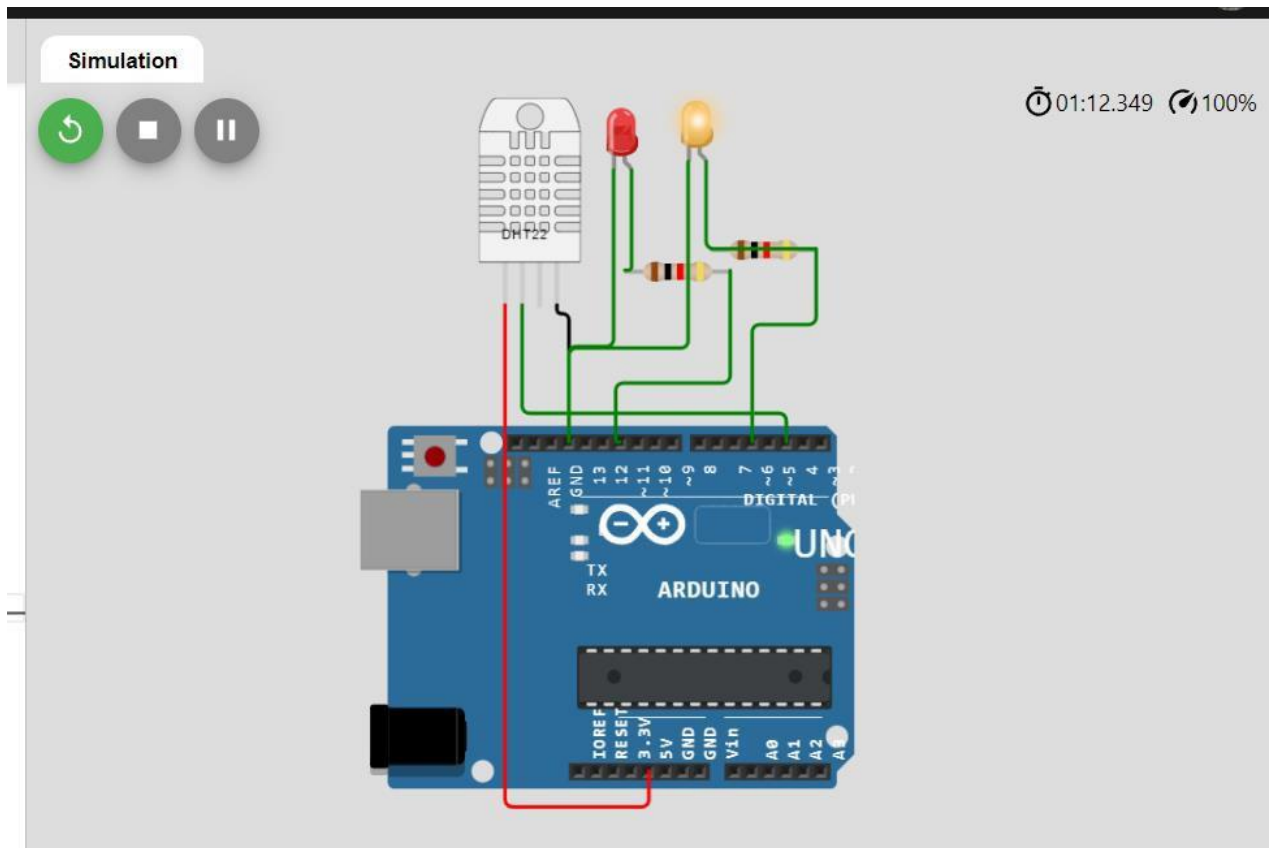| DATE	10TH November 2022
TEAM ID	PNT2022TMID36126
PROJECT NAME	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

Display the temperature and humidity value:

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: 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
```