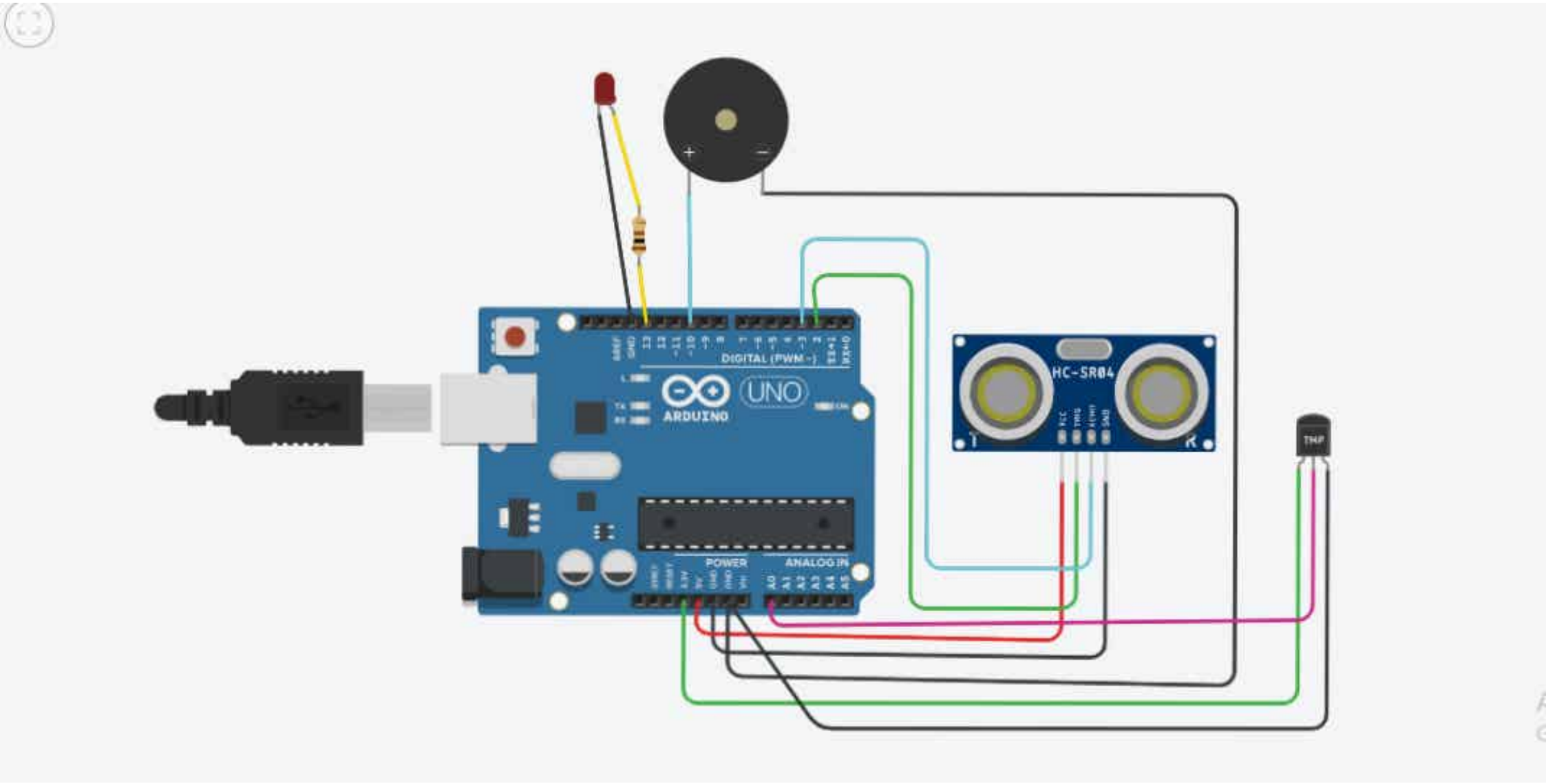

DIGITAL (PWM~)
UNO
ARDUINO
POWER
ANALOG IN
HC-SR04
THP

All changes saved

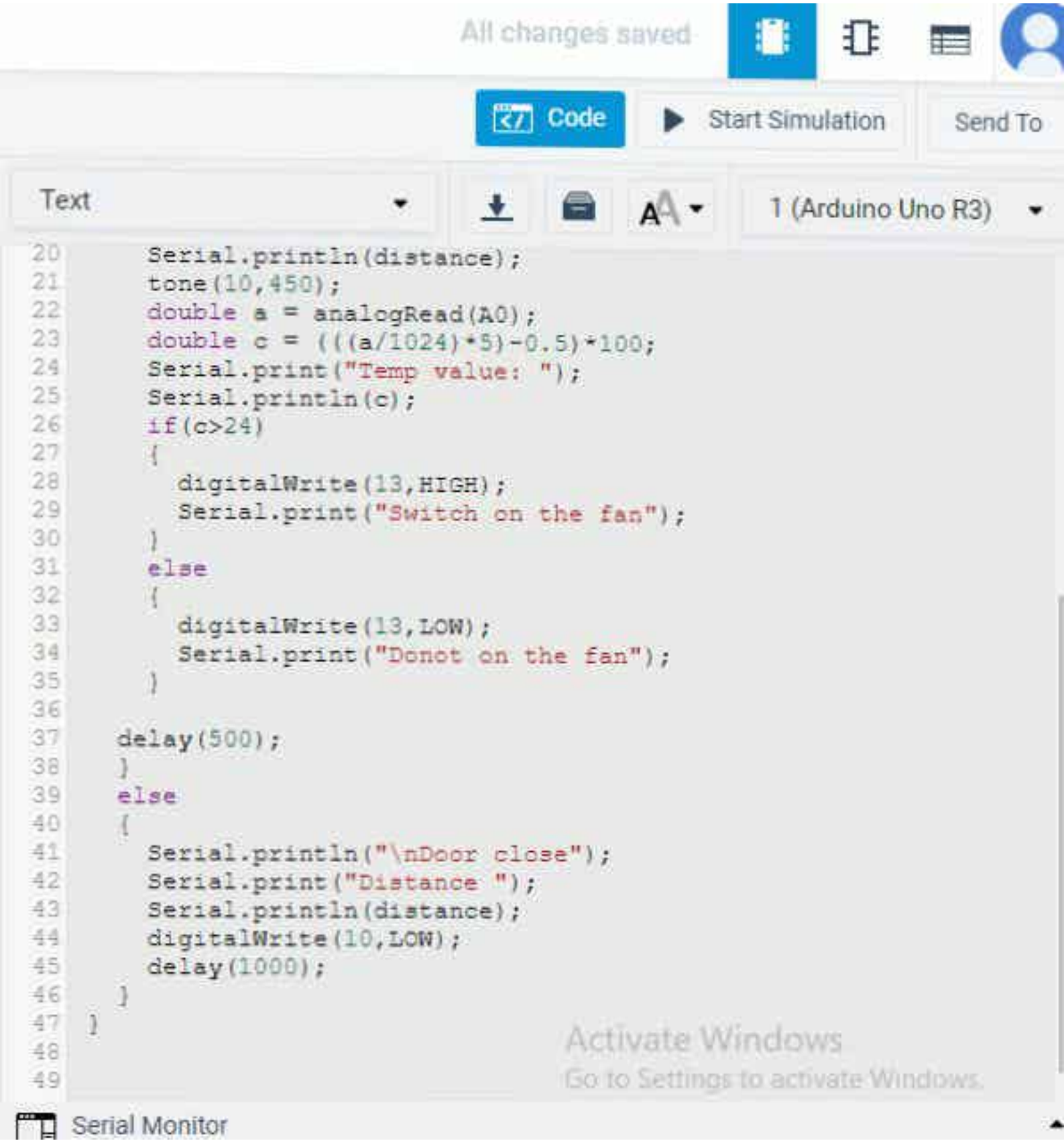
Code | Start Simulation | Send To

Text | 1 (Arduino Uno R3)

```
void setup()
{
  Serial.begin(9600);
  pinMode(2,OUTPUT);
  pinMode(3,INPUT);
  pinMode(10,OUTPUT);
  pinMode(13,OUTPUT);
}
void loop()
{
  digitalWrite(2,HIGH);
  delayMicroseconds(10);
  digitalWrite(2,LOW);
  int time=pulseIn(3,HIGH);
  int distance=(time*0.034)/2;
  if (distance<=10)
  {
    Serial.print("\nDoor open");
    Serial.print("\nDistance ");
    Serial.println(distance);
    tone(10,450);
    double a = analogRead(A0);
    double c = (((a/1024)*5)-0.5)*100;
    Serial.print("Temp value: ");
    Serial.println(c);
    if(c>24)
    {
      digitalWrite(13,HIGH);
      Serial.print("Switch on the fan");
    }
```

Activate Windows
Go to Settings to activate Windows.

Serial Monitor


All changes saved
Code
Start Simulation
Send To
Text
1 (Arduino Uno R3)
Serial.println(distance);
tone(10,450);
double a = analogRead(A0);
double c = (((a/1024)*5)-0.5)*100;
Serial.print("Temp value: ");
Serial.println(c);
if(c>24)
{
digitalWrite(13,HIGH);
Serial.print("Switch on the fan");
}
else
{
digitalWrite(13,LOW);
Serial.print("Donot on the fan");
}
delay(500);
}
else
{
Serial.println("\nDoor close");
Serial.print("Distance ");
Serial.println(distance);
digitalWrite(10,LOW);
delay(1000);
}
}
Activate Windows
Go to Settings to activate Windows.
Serial Monitor

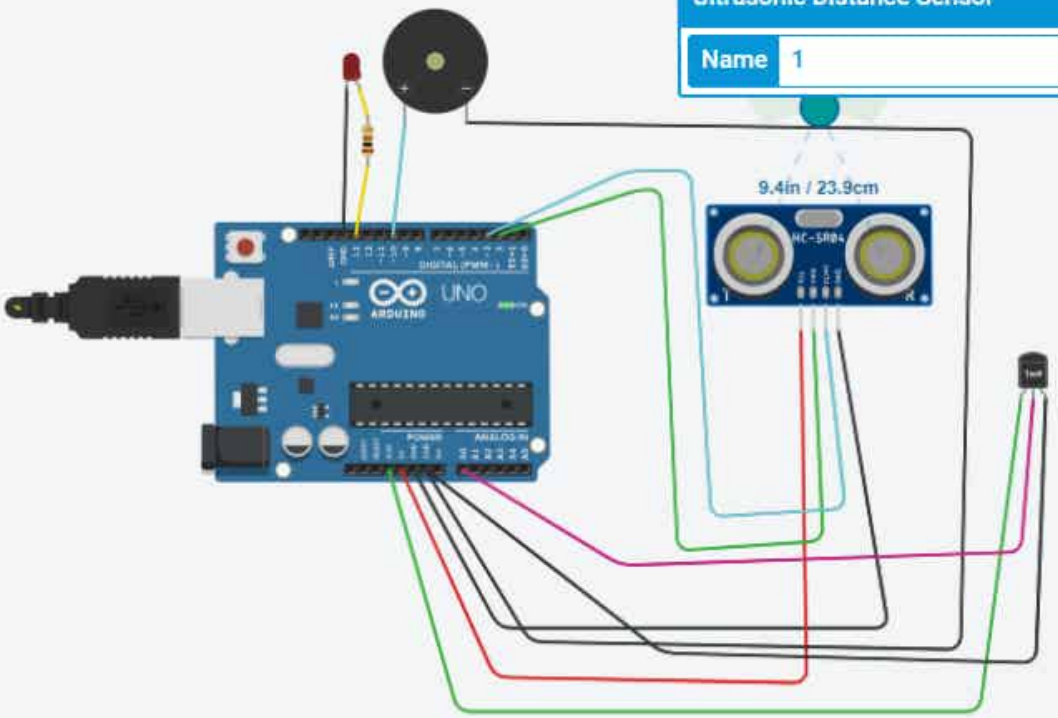
tinkercad.com/things/kvSKaeOZ1Me-assignment-1-home-automation/editel

Assignment 1 Home automation

All changes saved

Simulator time: 00:00:07.025

Code | Stop Simulation | Send To



1 (Arduino Uno R3)

```
1  void setup()
2  {
3    Serial.begin(9600);
4    pinMode(2,OUTPUT);
5    pinMode(3,INPUT);
6    pinMode(10,OUTPUT);
7    pinMode(13,OUTPUT);
8  }
9  void loop()
10 {
11   digitalWrite(2,HIGH);
12   delayMicroseconds(10);
13   digitalWrite(2,LOW);
14   int time=pulseIn(3,HIGH);
15   int distance=(time*0.034)/2;
16   if (distance<=10)
17   {
18     Serial.print("\nDoor open");
19     Serial.print("\nDistance ");
```

Serial Monitor

```
Door close
Distance 23

Door close
Distance 23

Door close
Distance 23
```

Activate Windows
Go to Settings to activate Windows.

Send | Clear

Circuit design Assignment 1

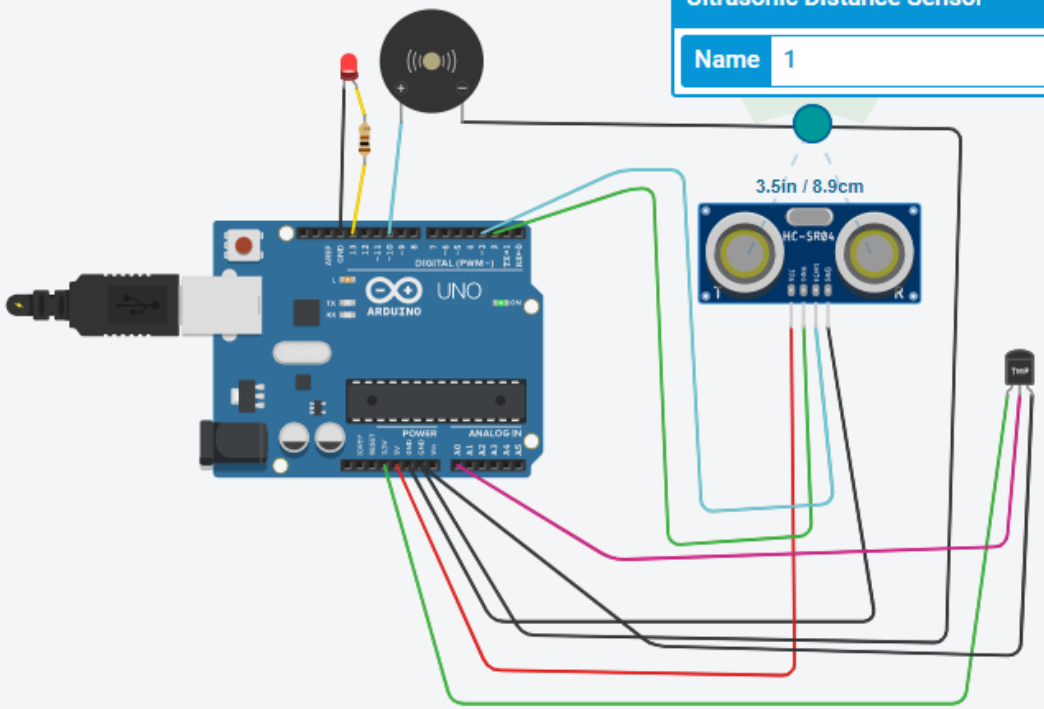
tinkercad.com/things/kvSKaeOZ1Me-assignment-1-home-automation/editel

Assignment 1 Home automation

All changes saved

Simulator time: 00:00:01.620

Code | Stop Simulation | Send To



1 (Arduino Uno R3)

```
1  void setup()
2  {
3    Serial.begin(9600);
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8  }
9  void loop()
10 {
11   digitalWrite(2,HIGH);
12   delayMicroseconds(10);
13   digitalWrite(2,LOW);
14   int time=pulseIn(3,HIGH);
15   int distance=(time*0.034)/2;
16   if (distance<=10)
17   {
18     Serial.print("\nDoor open");
19     Serial.print("\nDistance ");
```

Serial Monitor

```
Door open
Distance 8
Temp value: 24.71
Switch on the fan
```

Activate Windows
Go to Settings to activate Windows.

Send | Clear

Type here to search

28°C Light rain

20:00
14-09-2022