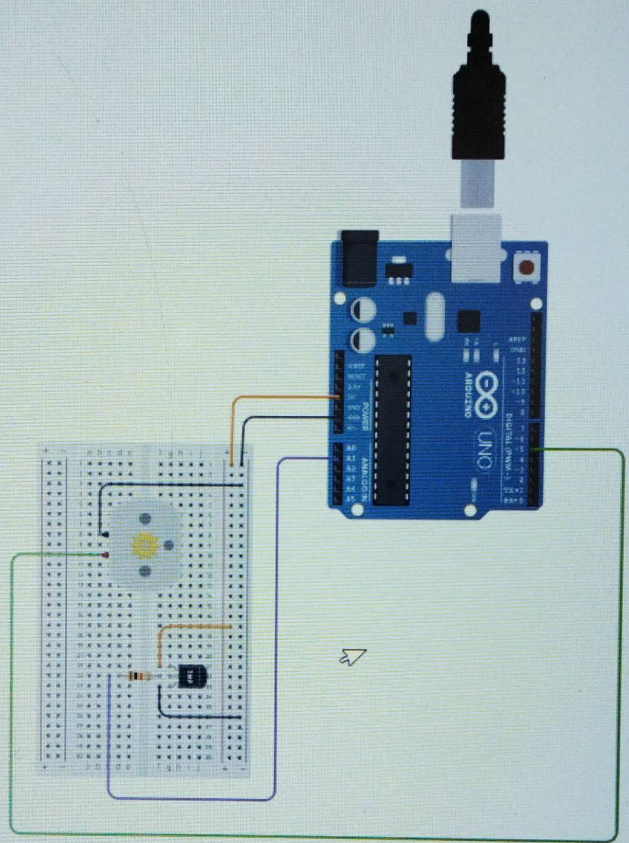


# Copy of A automatic fan with Temperature sensor



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Text



1 (Arduino Uno R3)

```
1 int DCMotorPin=5;
2 int DCMotorPower=0;
3 int temperaturePin=A1;
4 int tempAnalog;
```

```
5
6 void setup()
7 {
```

```
8   pinMode(temperaturePin, INPUT);
9   pinMode(DCMotorPin, OUTPUT);
10  Serial.begin(9600);
11  }
```

```
12
13
14 void loop()
15 {
```

```
16   tempAnalog = analogRead(temperaturePin);
17   double tempCelsius = (double)tempAnalog/1024*5;
18   tempCelsius = tempCelsius - 0.5;
19   tempCelsius = tempCelsius - 100;
20   Serial.print("The temperature is ");
21   Serial.print(tempCelsius);
22   Serial.print(" & Fan is: ");
```

```
23
24   if(tempCelsius>25){
25     DCMotorPower=1000;
26     Serial.println("On");
27   }
```

```
28   else{
29     DCMotorPower=0;
30     Serial.println("Off");
```



Serial Monitor

32°C Cloudy



ENG

2:12 PM

10/15/2022



```
5
6
7 void setup()
8 {
9   pinMode(temperaturePin, INPUT);
10  pinMode(DCMotorPin, OUTPUT);
11  Serial.begin(9600);
12 }
13
14 void loop()
15 {
16   tempAnalog = analogRead(temperaturePin);
17   double tempCelsius = (double)tempAnalog/1024*5;
18   tempCelsius = tempCelsius - 0.5;
19   tempCelsius = tempCelsius * 100;
20   Serial.print("The temperature is ");
21   Serial.print(tempCelsius);
22   Serial.print("& Fan is: ");
23
24   if(tempCelsius>25){
25     DCMotorPower=1000;
26     Serial.println("On");
27   }
28   else{
29     DCMotorPower=0;
30     Serial.println("Off");
31   }
32
33   analogWrite(DCMotorPin, DCMotorPower);
34 }
```



Serial Monitor