

```
1 // C++ code
2 //SMART HOME
4 const int pingPin = 7; // Trigger Pin of Ultrasonic Sensor
5 const int echoPin = 6; // Echo Pin of Ultrasonic Sensor
6 int tempPin=0;
7 void setup()
8 {
    Serial.begin(9600); // Starting Serial Terminal
9
    pinMode(LED_BUILTIN, OUTPUT);
10
    pinMode(3,OUTPUT);
11
12 }
13
14 void loop()
15 {
    long distcm, duration;
16
    float temp;
17
    temp=analogRead(tempPin);
18
    temp=temp*0.4882815;
19
    if(temp>70)
20
21
    {
        digitalWrite(3, HIGH);
22
23
    }
24
    else
25
    {
        digitalWrite(3,LOW);
26
27
    }
28
    delay(1000);
29
    pinMode(pingPin, OUTPUT);
30
31
    digitalWrite(pingPin, LOW);
32
    delayMicroseconds(2);
    digitalWrite(pingPin, HIGH);
33
```

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35

delayMicroseconds(10);

digitalWrite(pingPin, LOW);

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```
10 (
16
    long distem, duration;
17 float temp;
18 temp=analogRead(tempPin);
19
    temp=temp*0.4882815;
    if(temp>70)
20
21
    {
22
        digitalWrite(3, HIGH);
23
    }
24
    else
25
    {
26
        digitalWrite(3,LOW);
27
28
29
    delay(1000);
30
    pinMode(pingPin, OUTPUT);
31
    digitalWrite(pingPin, LOW);
32
    delayMicroseconds(2);
33
    digitalWrite(pingPin, HIGH);
34
    delayMicroseconds(10);
35
    digitalWrite(pingPin, LOW);
    pinMode(echoPin, INPUT);
36
7
    duration = pulseIn(echoPin, HIGH);
8
19
   distcm = duration*0.0343/2;
10
    // Turns the LED ON when the water level drops below 100cm.
1
    if(distcm<100)
12
   {
13
       digitalWrite(LED_BUILTIN, HIGH);
   }
5
   else
б
7
       digitalWrite(LED_BUILTIN, LOW);
8
    }
```

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9 }