

```
≡ SMART HOME.ino

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
    {
22
        digitalWrite(3, HIGH);
23
    }
24
    else
25
    {
        digitalWrite(3,LOW);
26
27
    }
28
29
    delay(1000);
    pinMode(pingPin, OUTPUT);
30
31
    digitalWrite(pingPin, LOW);
32
    delayMicroseconds(2);
33
    digitalWrite(pingPin, HIGH);
34
    delayMicroseconds(10);
35
   digitalWrite(pingPin, LOW);
```

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```
10 (
16
    long distcm, duration;
17
   float temp;
18
   temp=analogRead(tempPin);
    temp=temp*0.4882815;
19
20
    if(temp>70)
    {
        digitalWrite(3, HIGH);
    }
    else
    {
        digitalWrite(3,LOW);
    }
    delay(1000);
    pinMode(pingPin, OUTPUT);
31
    digitalWrite(pingPin, LOW);
32
   delayMicroseconds(2);
33
   digitalWrite(pingPin, HIGH);
34
   delayMicroseconds(10);
    digitalWrite(pingPin, LOW);
    pinMode(echoPin, INPUT);
   duration = pulseIn(echoPin, HIGH);
   distcm = duration*0.0343/2;
   // Turns the LED ON when the water level drops below 100cm.
    if(distcm<100)
   {
       digitalWrite(LED_BUILTIN, HIGH);
   )
   else
       digitalWrite(LED_BUILTIN, LOW);
   }
9 }
```

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