



SMART HOME.ino

```
1 // C++ code
2 //SMART HOME
3
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 {
9   Serial.begin(9600); // Starting Serial Terminal
10  pinMode(LED_BUILTIN, OUTPUT);
11  pinMode(3,OUTPUT);
12 }
13
14 void loop()
15 {
16   long distcm,duration;
17   float temp;
18   temp=analogRead(tempPin);
19   temp=temp*0.4882815;
20   if(temp>70)
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);
```

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```

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16   long distcm,duration;
17   float temp;
18   temp=analogRead(tempPin);
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20   if(temp>70)
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);
36   pinMode(echoPin, INPUT);
37   duration = pulseIn(echoPin, HIGH);
38
39   distcm = duration*0.0343/2;
40   // Turns the LED ON when the water level drops below 100cm.
41   if(distcm<100)
42   {
43     digitalWrite(LED_BUILTIN, HIGH);
44   }
45   else
46   {
47     digitalWrite(LED_BUILTIN, LOW);
48   }
49 }

```