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// C++ code
//SMART HOME

const int pingPin = 7; // Trigger Pin of Ultrasonic Sensor
const int echoPin = 6; // Echo Pin of Ultrasonic Sensor
int tempPin=0;
void setup()
{
    Serial.begin(9600); // Starting Serial Terminal
    pinMode(LED_BUILTIN, OUTPUT);
    pinMode(3,OUTPUT);
}
```

```
void loop()
{
long distcm, duration;
float temp;
temp=analogRead(tempPin);
temp=temp*0.4882815;
if(temp>70)
{
       digitalWrite(3, HIGH);
}
else
{
       digitalWrite(3,LOW);
}
delay(1000);
pinMode(pingPin, OUTPUT);
digitalWrite(pingPin, LOW);
delayMicroseconds(2);
 digitalWrite(pingPin, HIGH);
delayMicroseconds(10);
digitalWrite(pingPin, LOW);
pinMode(echoPin, INPUT);
duration = pulseIn(echoPin, HIGH);
```