SMART HOME

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```
//c++code
int t=2;
int e=3;
void setup()
 Serial.begin(9600);
 pinMode(t,OUTPUT);
 pinMode(e,INPUT);
 pinMode(12,OUTPUT);
void loop()
{
 //ultrasonic sensor
 digitalWrite(t,LOW);
 digitalWrite(t,HIGH);
 delayMicroseconds(10);
 digitalWrite(t,LOW);
 float dur=pulseIn(e,HIGH);
 float dis=(dur*0.0343)/2;
 Serial.print("Distance is:");
 Serial.println(dis);
 //LED ON
 if(dis>=100)
 {
  digitalWrite(8,HIGH);
  digitalWrite(7,HIGH);
 //Buzzer For ultrasonic sensor
 if(dis>=100)
 for(int i=0;i<=30000;i=i+10)
 tone(12,i);
 delay(1000);
 noTone(12);
 delay(1000);
 }
 //Temperature sensor
 double a=analogRead(A0);
 double t=(((a/1024)*5)-0.5)*100;
 Serial.print("Temp value:");
 Serial.print(t);
 delay(100);
 //LED ON
 if(t>=100)
 {
  digitalWrite(8,HIGH);
  digitalWrite(7,HIGH);
 //Buzzer for Temperature Sensor
```

```
if(t>=100)
{
  for(int i=0;i<=30000;i=i+10)
  {
    tone(12,i);
    delay(1000);
    noTone(12);
    delay(1000);
  }
}
//LED OFF
if(t<100)
  {
    digitalWrite(8,LOW);
    digitalWrite(7,LOW);
}</pre>
```

