## **Smart home 1**

```
intt=2;
inte=3;
void setup()
Serial.begin (9600);
 p in Mo de(t,OUTPUT);
p in Mo de(e,INPUT);
p in Mo de(12,OUTPUT);
void lo o p()
//ultra so n ic sensor
digita IWrite(t,LOW);
 digita lWrite(t,HIGH);
 dela yMicro seco n ds(10);
 digita IWrite(t,LOW);
 float dur= p ulseln (e,HIGH);
 float dis= (dur*0.0343)/2;
 Seria I.p rin t("Dista n ce is: ");
 Serial.p rin tln (dis);
  //LED ON
 if (dis>=100)
  digita Write(8, HIGH);
 digita IWrite(7,HIGH);
 }
//B uzzer For ultrasonic Sensor
 if (dis>=100)
 for(int\models0;k=30000;<math>\modelsi+10)
 tone(12,i);
 delay(1000);
 noTone(12);
 delay(1000);
```

```
double a = a n a logRead(A 0);
double t=(((a/1024)*5)-0.5)*100;
Seria I.p rin t( "Temp Value: ");
Serial.p rin tln (t);
delay(1000);
//LED ON
if(t>=100)
digita IWrite(8,HIGH);
digita IWrite(7,HIGH);
//B uzzer for Temperature Sensor
if(t>=100)
for(int\models0;k=30000; \modelsi+10)
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
                 }
//LED OFF
if(t<100)
       digita IWrite(8,LOW);
       digita lWrite(7,LOW);
```