Assignment -1

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Build a smart home using sensor LED and Buzzer

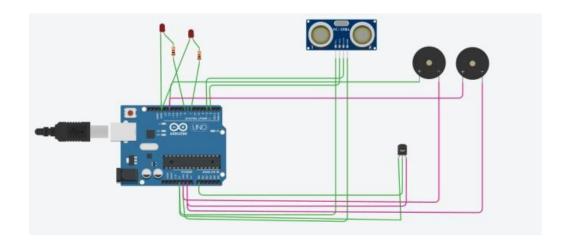
Program:

```
int t=2;
int e=3;
void setup()
Serial.begin(9600);
pinMode(e,OUTPUT);
pinMode(e,INPUT);
pinMode(12,OUTPUT);
void loop()
digitalWrite(t,LOW);
digitalWrite(t,HIGH);
delayMicroseconds(20);
digitalWrite(t,LOW); float
dur=(e,HIGH);
float dis=(dur*0.0343)/2;
Serial.print("Distance is");
Serial.println('dis'); if(dis>=100)
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
if(dis >= 100)
for(int i=0;i<=30000;i=i+10)
tone(12,1); delay(1000);
noTone(12);
delay(1000);
```

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```
}
}
double a=analogRead(A0); double
t=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value");
Serial.println(t);
delay(1000); if(t>=100);
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
if(t=100);
for(int i=0;i<3000;i=i+10)
tone(12,i); delay(1000);
noTone(12);
delay(1000);
if(t<100)
digitalWrite(8,LOW);
digitalWrite(7,LOW);
```

Output:



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