Assignment –1

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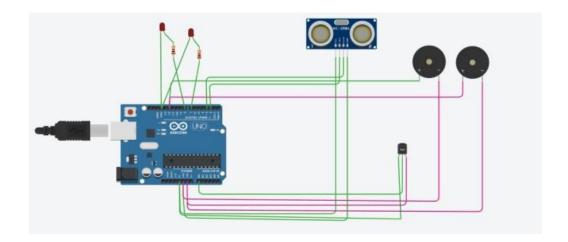## Build a smart home using sensor LED and Buzzer

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("Distanceis");
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);
```

```
}
 }
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 :