SMART HOME AUTOMATION

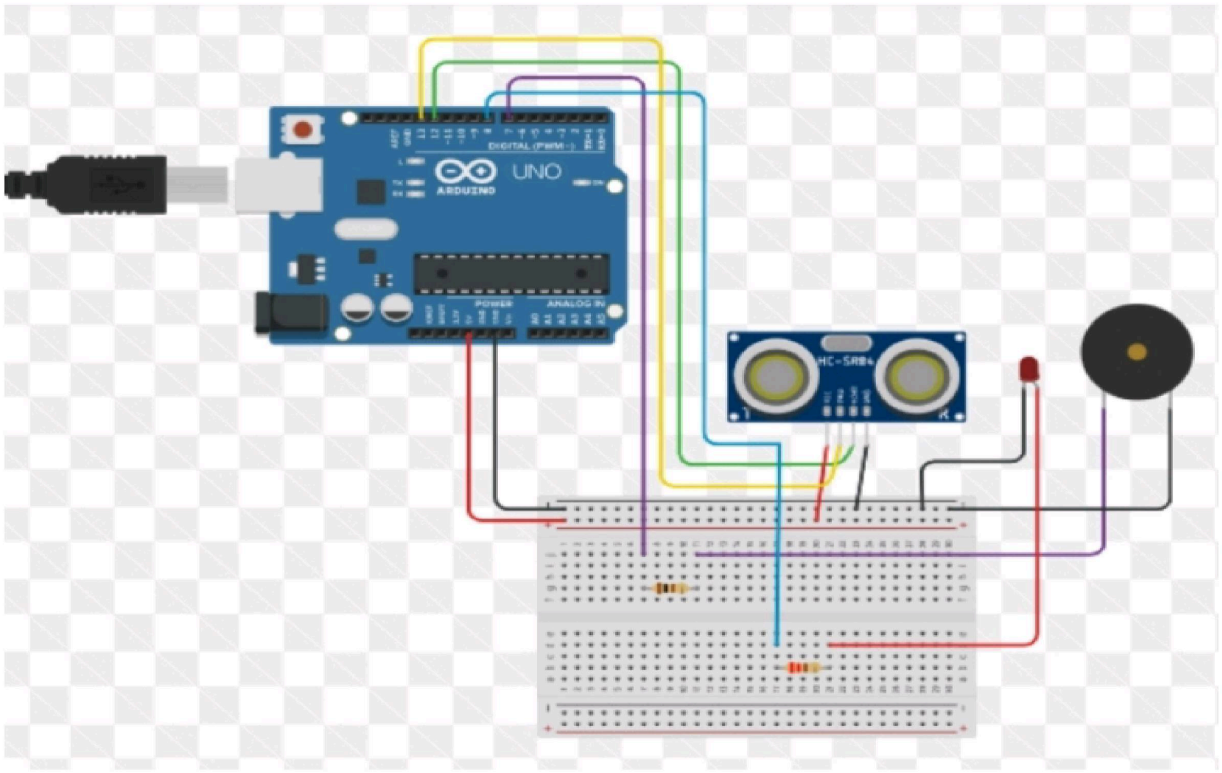
CODE:

```
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)
{
delay(1000);
//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);
}
}
```

CIRCUIT DIAGRAM



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