

SMART HOME AUTOMATION

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BATCH : B9-3A5E

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);

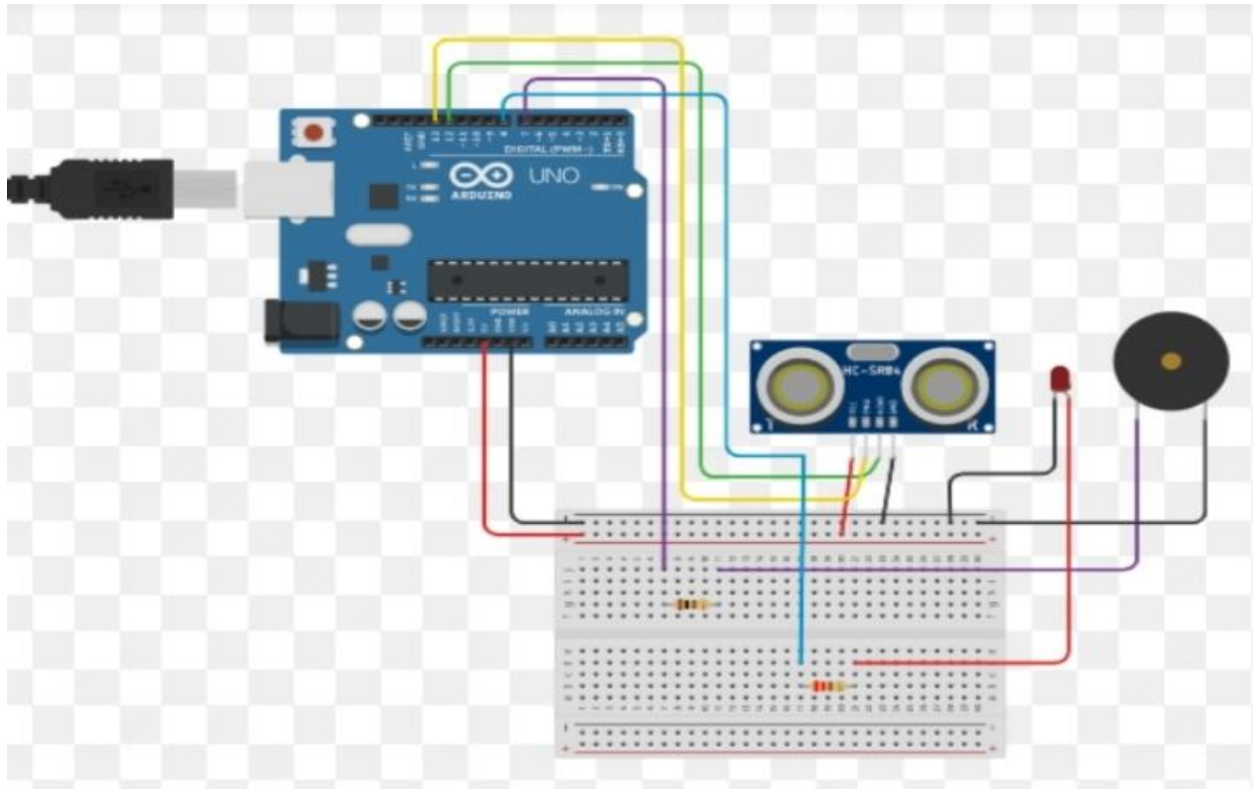
digitalWrite(7,HIGH);

}

//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



TINKERCAD LINK

<https://www.tinkercad.com/things/j6yUWg48EIL>