

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);

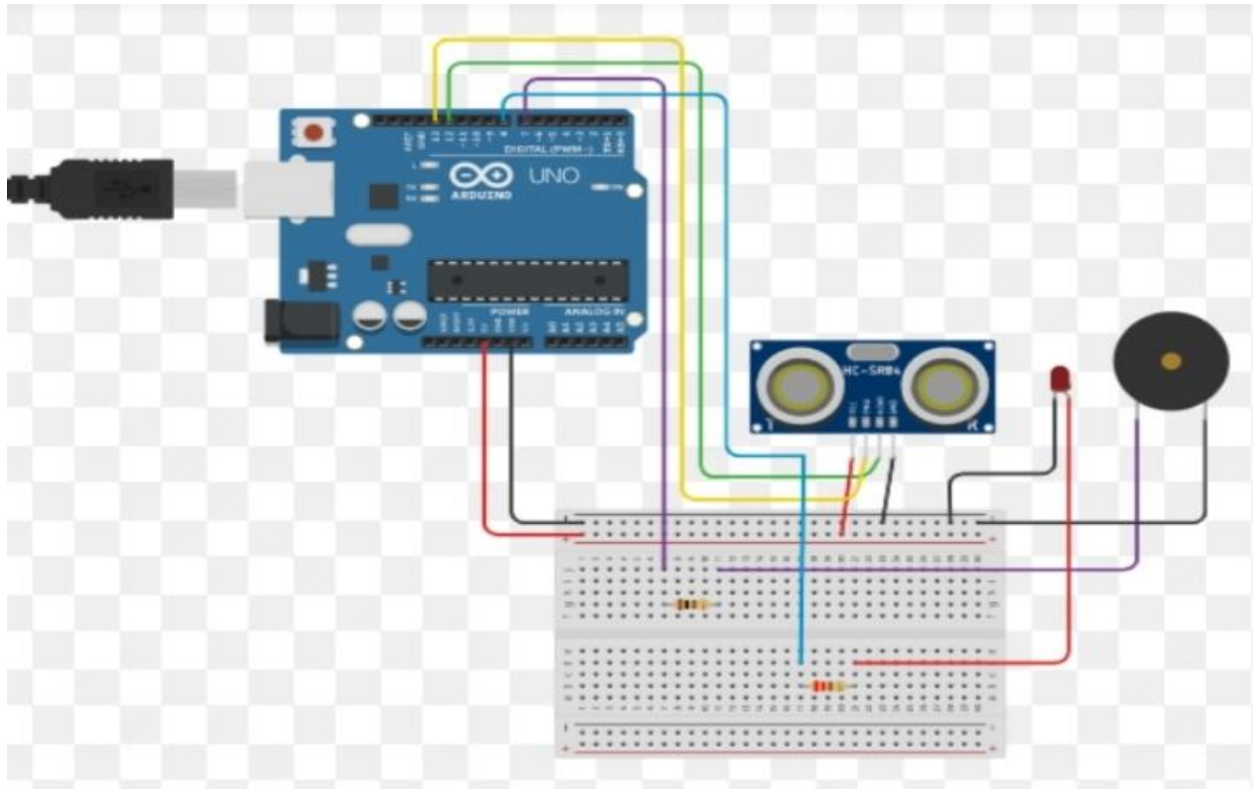
digitalWrite(7,HIGH);

}

//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>