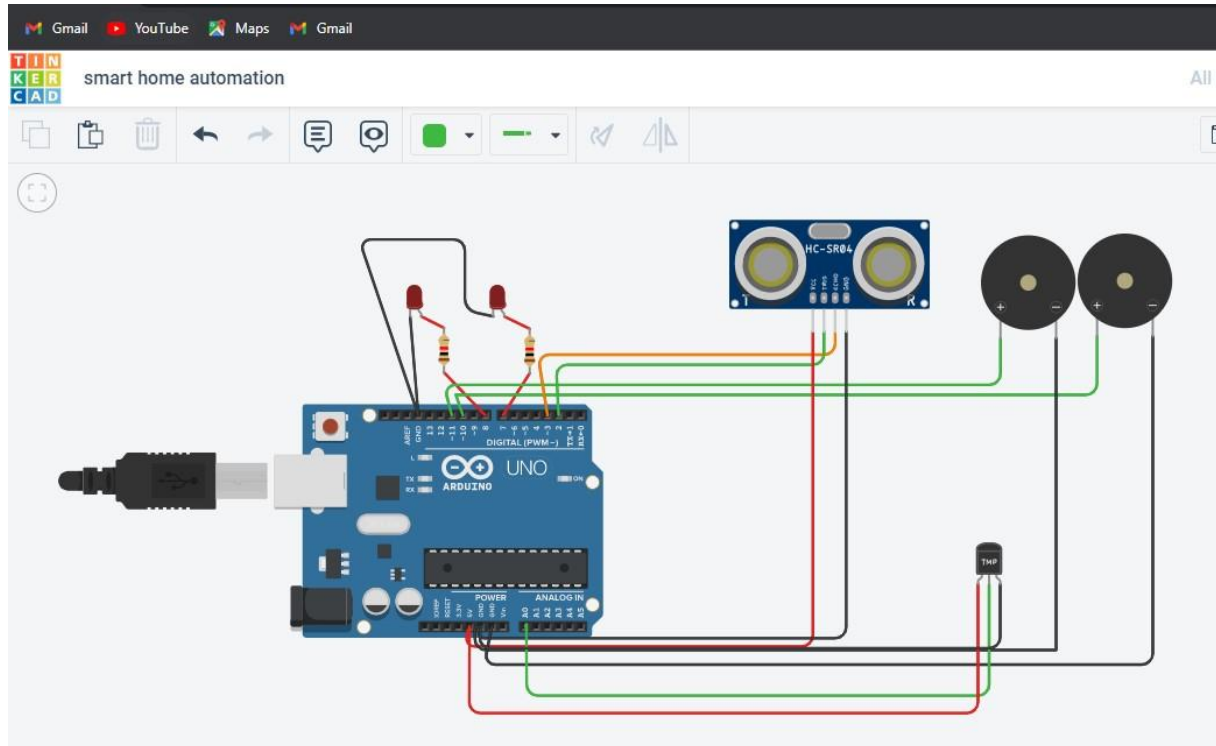


# SMART HOME AUTOMATION

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Reg- 960219104078

## CIRCUIT DIAGRAM



## 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)  
  {
```

```
digitalWrite(8,HIGH);  
digitalWrite(7,HIGH);  
}  
  
//Buzzer For ultrasonic Sensor  
if(dis>=100)  
{  
for(int i=0; i<=30000; i=i+10)  
{  
tone(12,i);  
delay(1000);  
noTone(12);  
delay(1000);  
}  
}
```

```
//Temperate Sensor double  
a= analogRead(A0); double  
t=(((a/1024)*5)-0.5)*100;  
Serial.print("Temp Value: ");  
Serial.println(t);
```

```
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);**

**}**

**}**

**TINKERCAD LINK**

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