SMART HOME AUTOMATION

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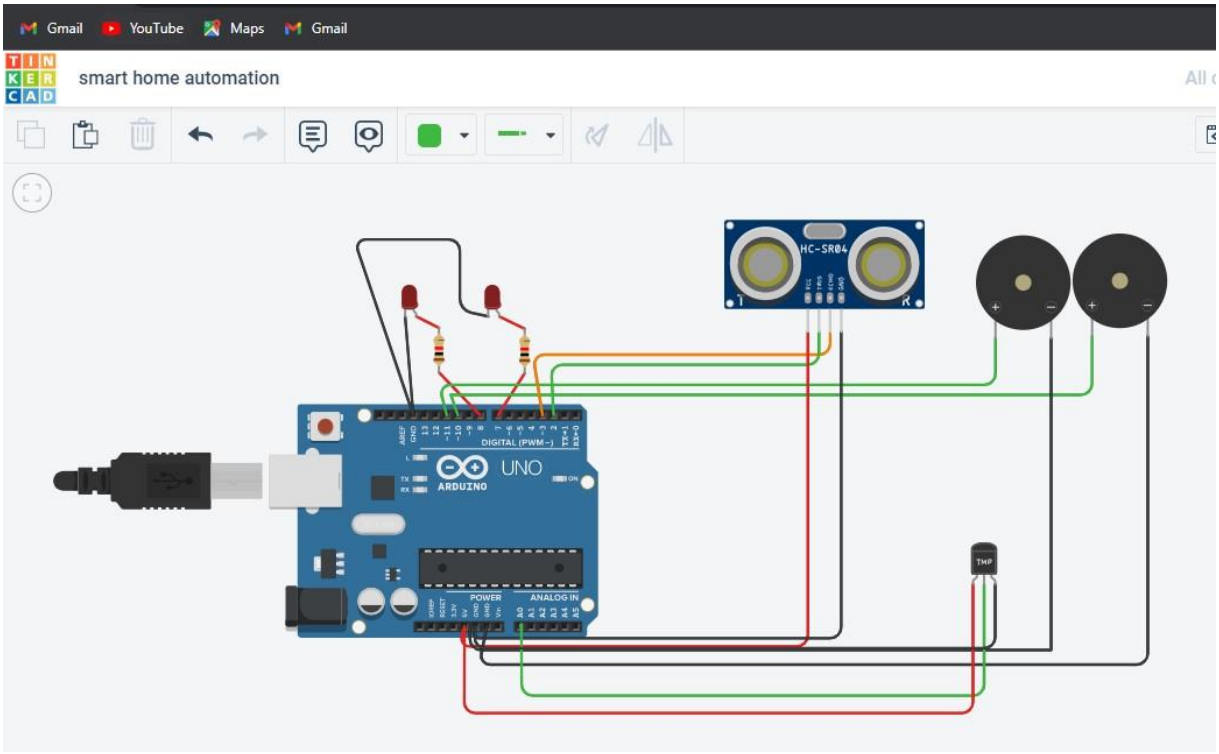
Reg- 960219104106

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