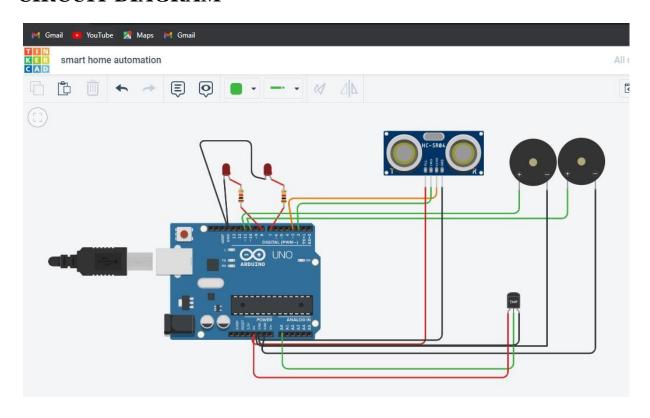
SMART HOME AUTOMATION

VISHATHINE .A

Reg- 960219104301

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);
}</pre>
```

TINKERCAD LINK

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