SMART HOME AUTOMATION

REQUIREMENTS:

Ardunio Uno R3, LED, Resistor, Piezo, Gas sensor, Temperature sensor, Breadboard small.

SOFTWARE REQUIRED:

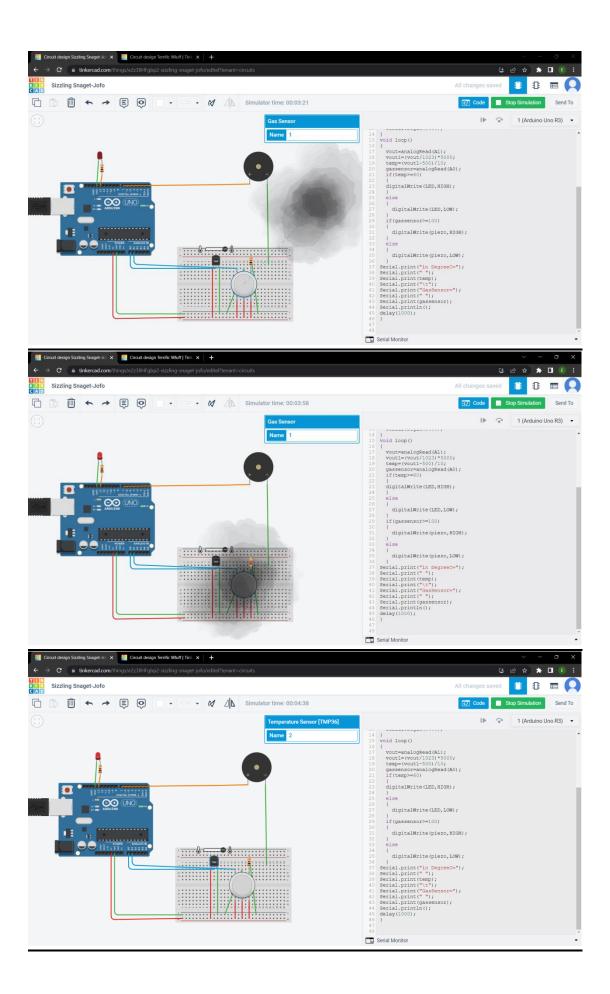
Tinkercad software.

CODE:

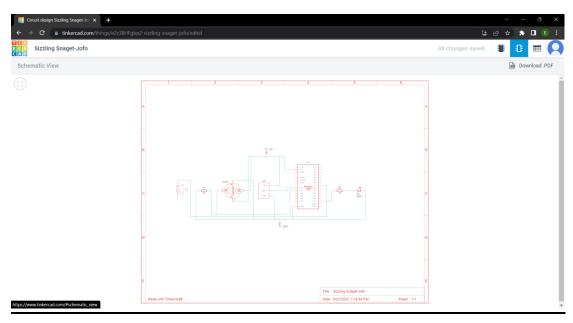
```
float temp;
float vout;
float vout1;
int LED=13;
int gassensor;
int piezo=7;
void setup()
 pinMode(A0,INPUT);
 pinMode(A1,INPUT);
 pinMode(LED,OUTPUT);
 pinMode(piezo,OUTPUT);
 Serial.begin(9600);
void loop()
 vout=analogRead(A1);
 vout1=(vout/1023)*5000;
 temp = (vout1-500)/10;
 gassensor=analogRead(A0);
 if(temp > = 60)
 digitalWrite(LED,HIGH);
 else
```

```
{
    digitalWrite(LED,LOW);
}
if(gassensor>=100)
{
    digitalWrite(piezo,HIGH);
}
else
{
    digitalWrite(piezo,LOW);
}
Serial.print("in DegreeC=");
Serial.print(" ");
Serial.print(temp);
Serial.print("GasSensor=");
Serial.print("GasSensor=");
Serial.print(gassensor);
Serial.print(gassensor);
Serial.print(n);
delay(1000);
}
```

CIRCUIT DIAGRAM:



SCHEMATIC DIAGRAM:



DEMO LINK:

https://www.tinkercad.com/things/e2z38HFgbp2-sizzling-snaget-jofo/editel?sharecode=jHjo8G3a_GklOI4aB_Y-43FNpVFoJvKNYoyTA3JK3Ts