**SMART HOME AUTOMATION**

**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(A0);

vout1=(vout/1023)\*5000;

temp=(vout1-500)/10;

gasSensor=analogRead(A1);

if(temp>=80)

{

digitalWrite(LED,HIGH);

}

else

{

digitalWrite(LED,LOW);

}

if(gasSensor >=100)

{

digitalWrite(piezo,HIGH);

}

else

{

digitalWrite(piezo,LOW);

Serial.print("in degrees =");

Serial.print(" ");

Serial.print(temp);

Serial.print("\t");

Serial.print("gasSensor");

Serial.print(" ");

Serial.print(gasSensor);

Serial.println();

delay(1000);

}

}

**CIRCUIT SETUP:**





