

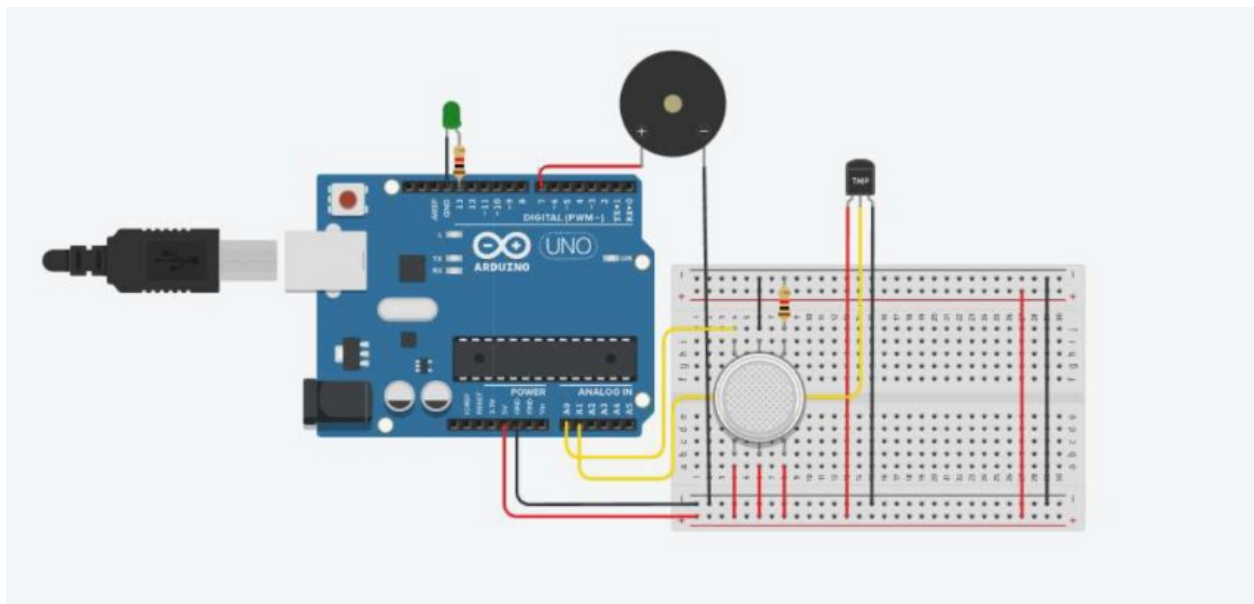
## ASSIGNMENT - 1

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## SMART HOME



## SOURCE 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()
{
  int gasSensor;
  pinMode(A0,INPUT);
  pinMode(A1,INPUT);
  pinMode(LED,OUTPUT);
  pinMode(piezo,OUTPUT);
  Serial.begin(9600);
  Vout=analogRead(A1);
```

```
Vout1=(Vout/1023)*5000;
temp=(Vout1-500)/10;
gasSensor=analogRead(A0);
if(temp>=80)
{
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("\t");
Serial.print("GasSensor= ");
Serial.print(" ");
Serial.print(gasSensor);
Serial.println();
delay(1000);
```

}