

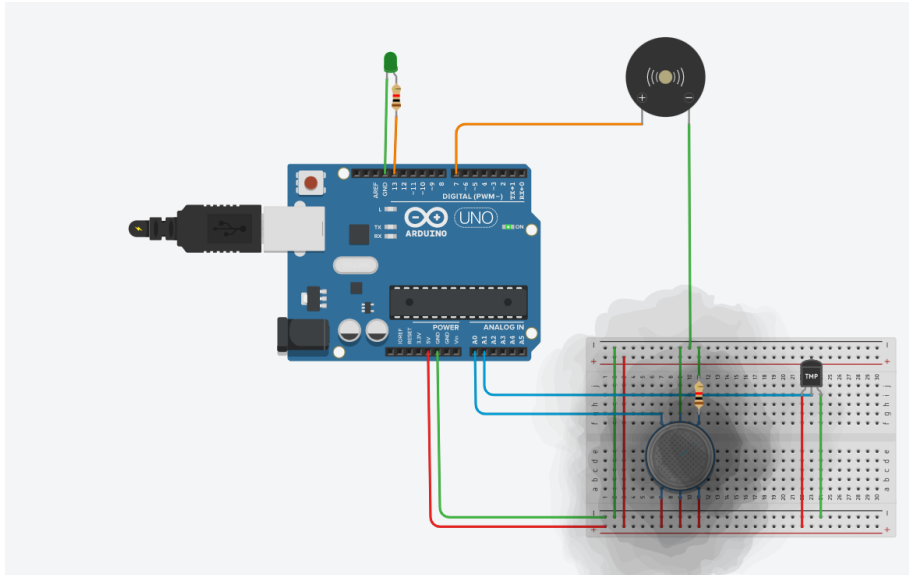
# ASSIGNMENT 1

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Build a smart home in tinkercad

Use atleast 2 sensors, led, buzzer in a circuit. Simulate in a single code.

## FIRE ALARM SYSTEM



### CIRCUIT 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>=80)
{
    digitalWrite(LED,HIGH);
}
else
{
    digitalWrite(LED,LOW);
}
if(gasSensor>=100)
{
    digitalWrite(piezo,HIGH);
}
else
{
    digitalWrite(piezo,LOW);
}
Serial.print("Temp DegreeC= ");
Serial.print(" ");
Serial.print(temp);
Serial.print("\t");
Serial.print("GasSensor= ");
Serial.print(" ");
Serial.print(gasSensor);
Serial.println();
delay(1000);}
```