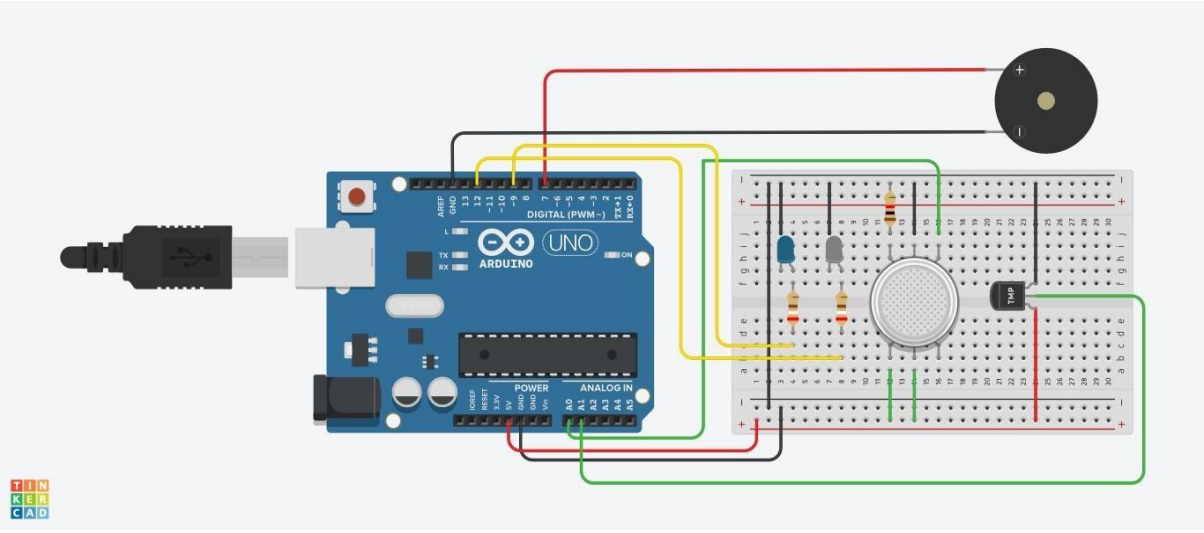
ASSIGNMENT - 1

Assignment Date	19 september 2022
Student Name	KAVIRATHNA S
Student Register Number	923019106009
Maximum Marks	2 MARKS

SMOKE SENSOR

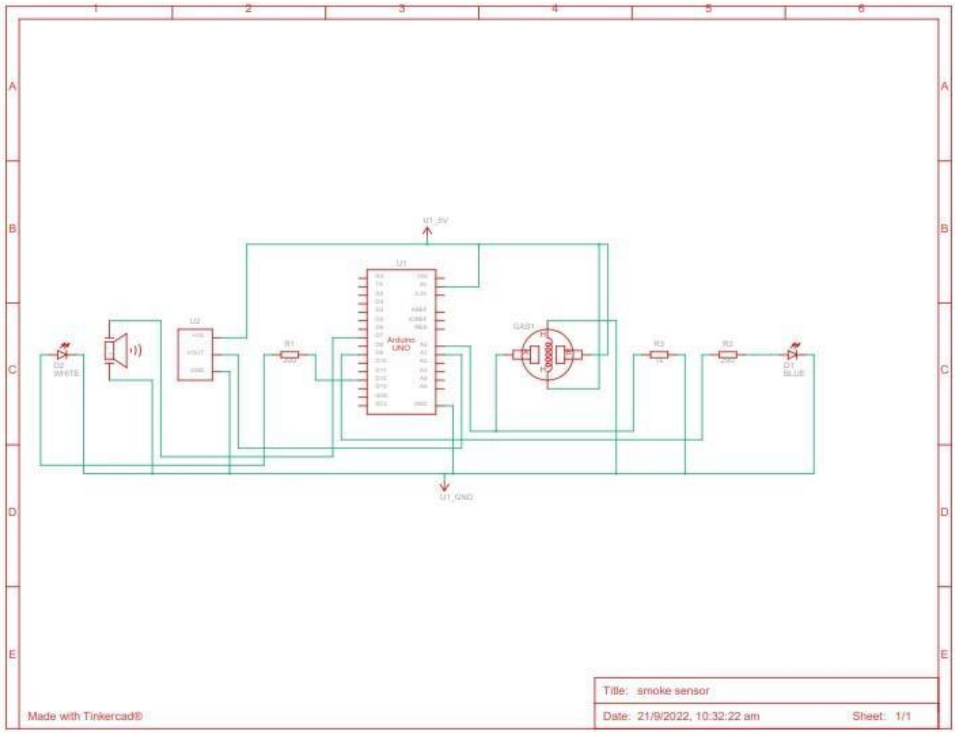


CODE :

```
//AE CODE int
V_GasSen = 0; int
V_TempSens = 0; int
V_LEDlight=2; void
setup() {
pinMode(A0,INPUT);
pinMode(7,OUTPUT);
pinMode(4,OUTPUT);
pinMode(A1,INPUT);
pinMode(2,OUTPUT);
} void loop() {
  //smoke Alarm
V_GasSen=analogRead(A0);
if (V_GasSen >= 250)
{     tone(7,523,1000);
digitalWrite(9,HIGH);
  }
```

```
  V_TempSens = -40 + 0.488155 * (analogRead(A1) - 20);
if (V_TempSens >= 70)     {     tone(7,523,1000);
digitalWrite(12,HIGH);
  }     delay(10);
}
```

BLACK DIAGRAM:



COMPONENT LIST:

Name	Quantity	Component
R1 R2	2	290 Ω Resistor
D1	1	Blue LED
U1	1	Arduino Uno R3
PIEZO1	1	Piezo
U2	1	Temperature Sensor [TMP36]
GAS1	1	Gas Sensor
D2	1	White LED
R3	1	1 kΩ Resistor