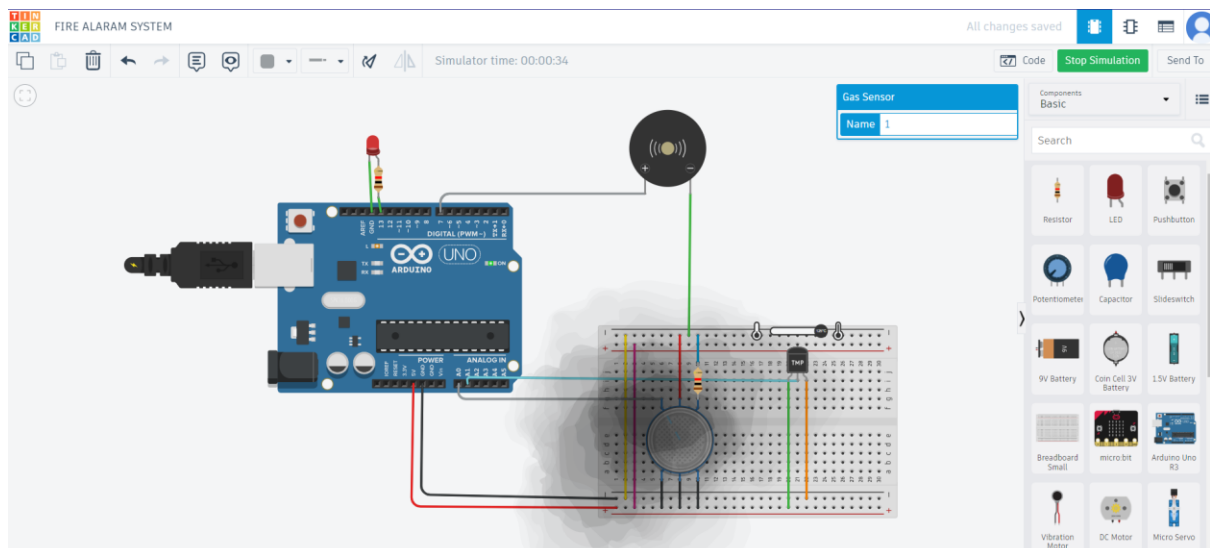
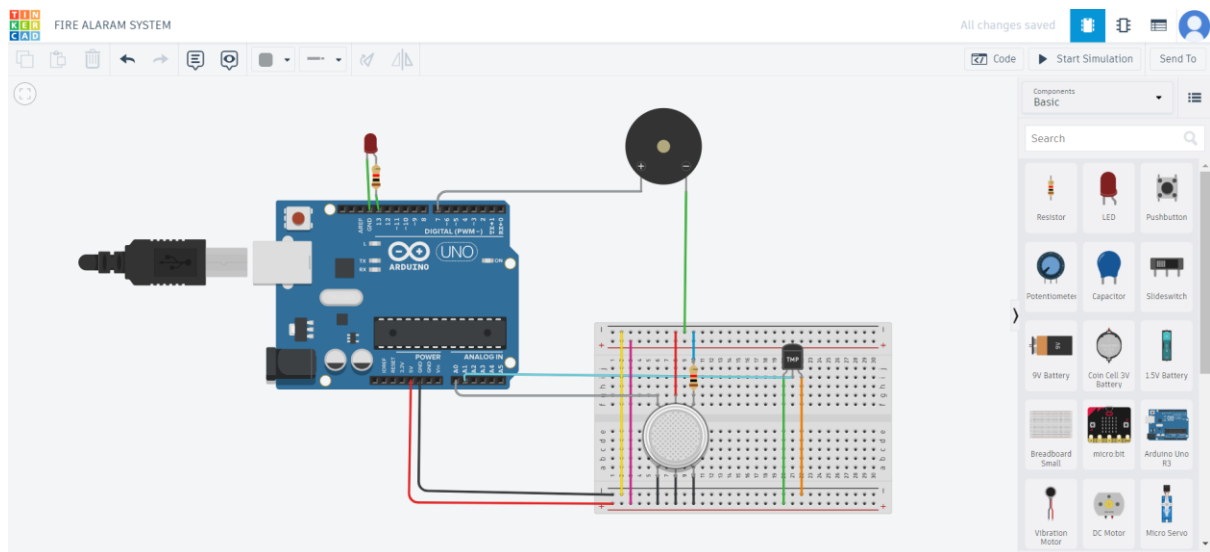


Name: **B. SAI CHARAN**

Roll No: **2203A51L72 (Batch-12)**

EXPERIMENT 7:

Fire Alarm System Project by Interfacing Arduino with Temperature & Gas Sensor in TinkerCAD.



CODE:

```
1 float temp;
2 float vout;
3 float vout1;
4 int LED = 13;
5 int gasSensor;
6 int piezo = 7;
7 void setup()
8 {
9   pinMode(A0, INPUT);
10  pinMode(A1, INPUT);
11  pinMode(LED, OUTPUT);
12  pinMode(piezo, OUTPUT);
13  Serial.begin(9600);
14 }
15 void loop()
16 {
17   vout=analogRead(A1);
18   vout1=(vout/1023)*5000;
19   temp=(vout1-500)/10;
20   gasSensor=analogRead(A0);
21   if (temp>=80)
22   {
23     digitalWrite(LED,HIGH);
24   }
25   else
26   {
```

```
21   if (temp<=80)
22   {
23     digitalWrite(LED,HIGH);
24   }
25   else
26   {
27     digitalWrite(LED,LOW);
28   }
29   if (gasSensor>=100)
30   {
31     digitalWrite(piezo,HIGH);
32   }
33   else
34   {
35     digitalWrite(piezo,LOW);
36   }
37   Serial.print("in DegreeC= ");
38   Serial.print(" ");
39   Serial.print(temp);
40   Serial.print("\t");
41   Serial.print("GasSensor= ");
42   Serial.print(" ");
43   Serial.print(gasSensor);
44   Serial.println();
45   delay(1000);
46 }
47
```

OUTPUT:

