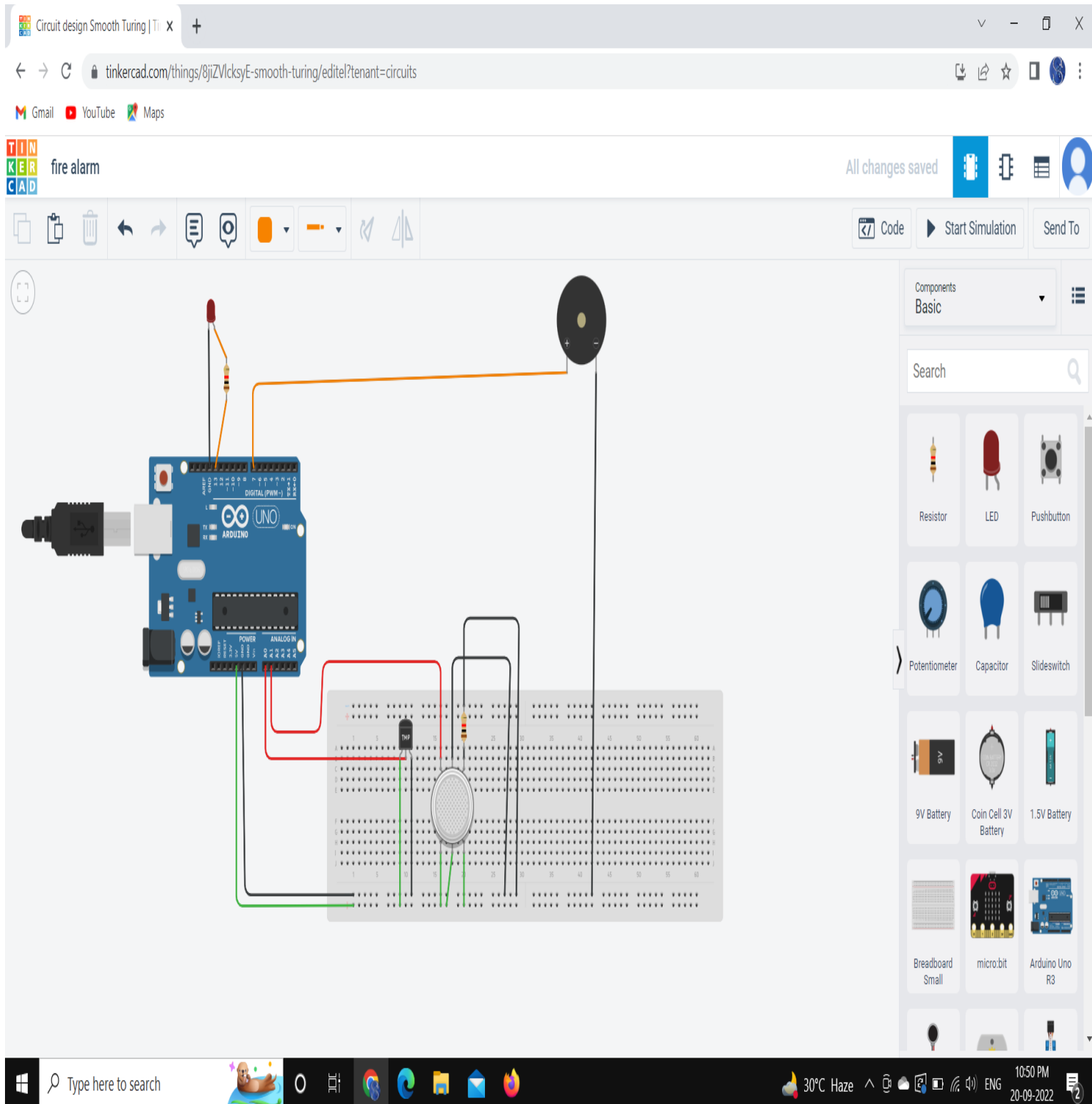


NAME : R.SANDHIYA
ROLL NO: 2019PECEC196
REG NO : 211419106232

FIRE ALARM USING TINKERCAD

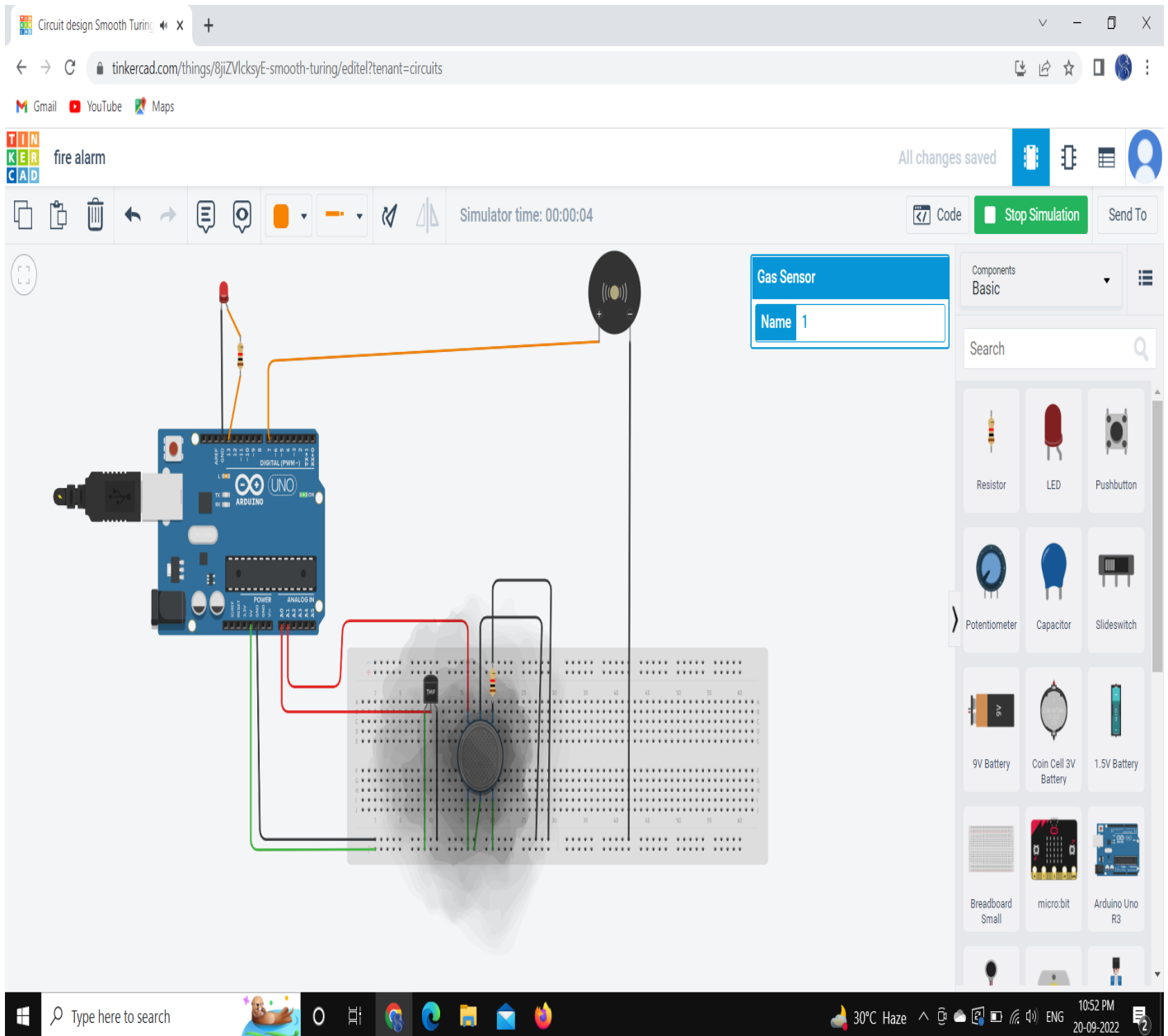


CODE EXECUTION:



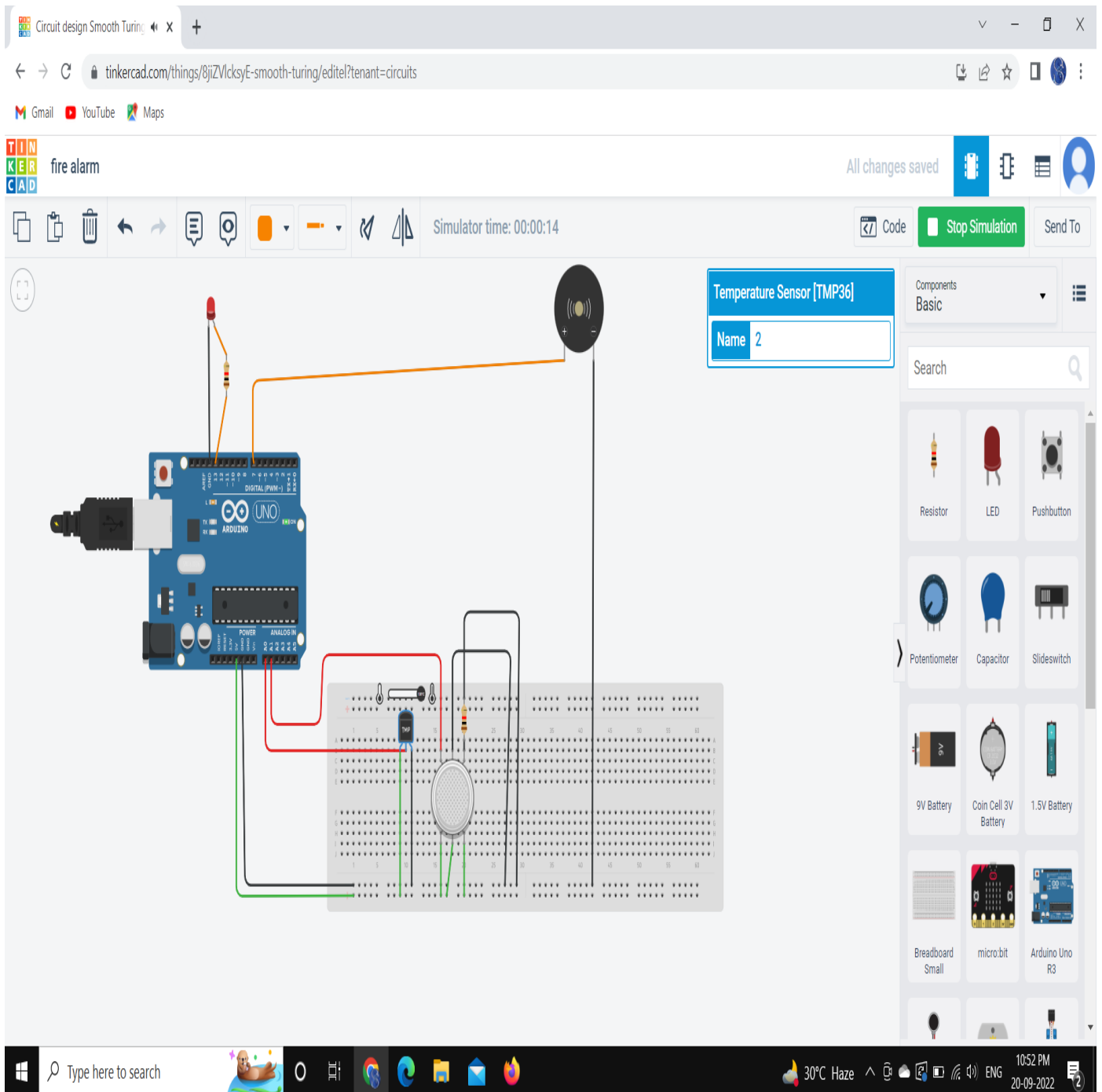
NAME : R.SANDHIYA
ROLL NO: 2019PECEC196
REG NO : 211419106232

GAS SENSOR DETECTION:



NAME : R.SANDHIYA
ROLL NO: 2019PECEC196
REG NO : 211419106232

TEMPERATURE SENSOR DETECTION:



NAME : R.SANDHIYA
ROLL NO: 2019PECEC196
REG NO : 211419106232

FINAL OUTPUT:

Circuit design Smooth Turing x

tinkercad.com/things/8jiZVlcksyE-smooth-turing/edit?tenant=circuits

Gmail YouTube Maps

fire alarm

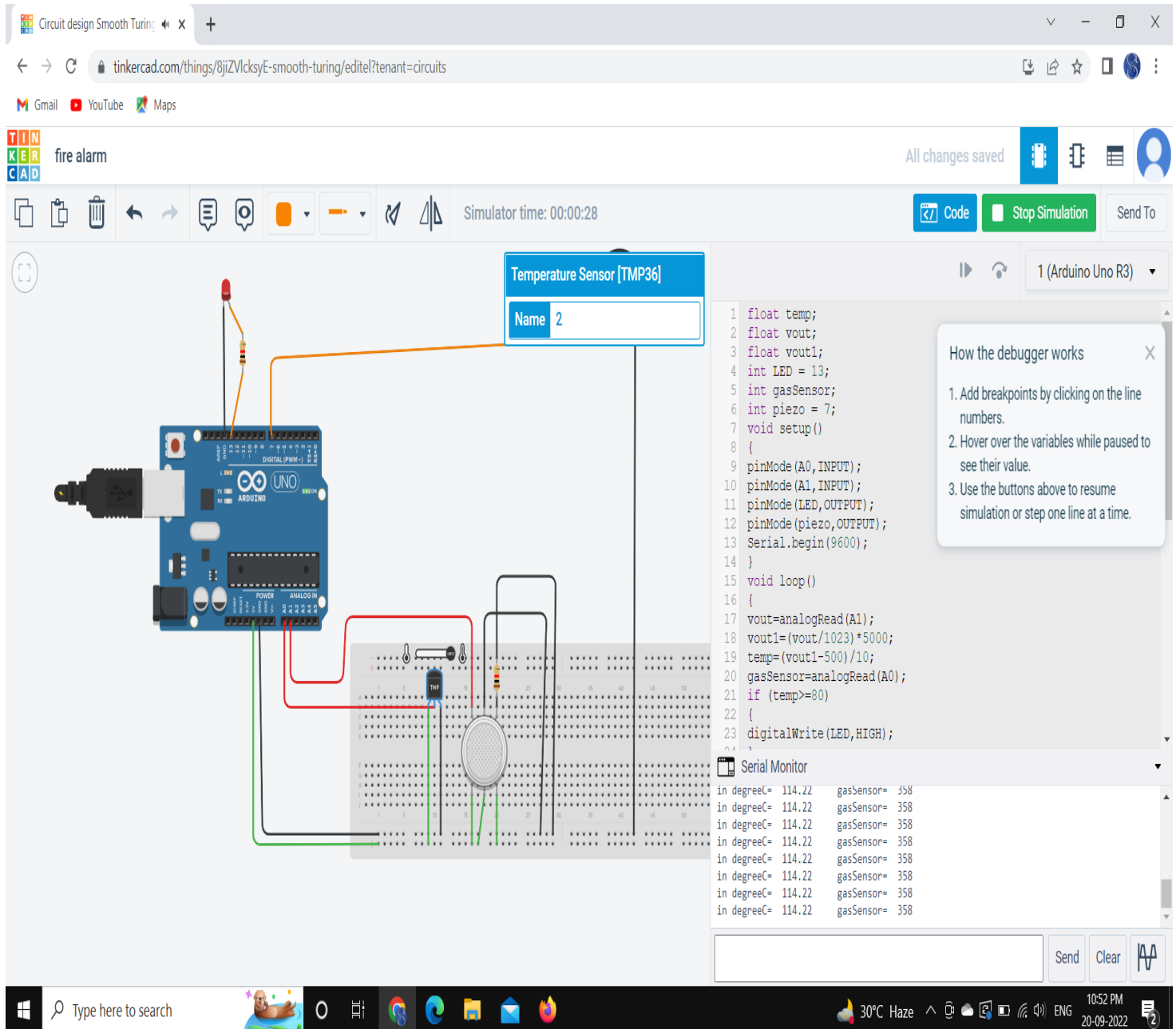
All changes saved

Simulator time: 00:00:28

Code Stop Simulation Send To

1 (Arduino Uno R3)

Temperature Sensor [TMP36]
Name 2



```
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 }
```

Serial Monitor

in degreeC=	gasSensor=
114.22	358
114.22	358
114.22	358
114.22	358
114.22	358
114.22	358
114.22	358
114.22	358

Send Clear

30°C Haze 10:52 PM 20-09-2022

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("in degreeC= ");
  Serial.print(" ");
  Serial.print(temp);
  Serial.print("\t");
  Serial.print("gasSensor= ");
  Serial.print(" ");
  Serial.print(gasSensor);
  Serial.println();
  delay(1000);
}
```