FIRE ALARAM SYSTEM USING TEMPERATURE AND GAS SENSOR IN TINKERCAD

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);
}
```

TEMPERATURE AND GAS SENSOR USING ARDUINO IN TINKERCAD