

Final Code

Team Id	<i>PNT2022TMID51029</i>
Project	<i>Gas Leakage Monitoring and Alerting System For Industries</i>
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FINAL CODE:

```
int gasSensor=A1;
int buzzer=13;
int led=12;
void setup()
{
  pinMode(A1, INPUT);
  pinMode(buzzer, OUTPUT);
  pinMode(led, OUTPUT);
  Serial.begin(9600);
}

void loop()
{
  int sensorValue=analogRead(gasSensor);
  Serial.print("GAS LEVEL:");
  Serial.println(sensorValue);
  delay(1000);
  if (sensorValue>250)
  {
    digitalWrite(buzzer,HIGH);
    digitalWrite(led,HIGH);

  }
  else
  {
    digitalWrite(buzzer,LOW);
    digitalWrite(led,LOW);
  }
}
```

The screenshot displays the Tinkercad web interface for a circuit design project titled "PNT2022TMD51029". The circuit consists of an Arduino Uno connected to a breadboard. On the breadboard, there is a gas sensor module (labeled "PNT2022TMD51029"), a buzzer, and an LED. The connections are as follows:

- The gas sensor's VCC pin is connected to the 5V pin of the Arduino.
- The gas sensor's GND pin is connected to the GND pin of the Arduino.
- The gas sensor's AO pin is connected to digital pin 13 of the Arduino.
- The buzzer's VCC pin is connected to the 5V pin of the Arduino.
- The buzzer's GND pin is connected to the GND pin of the Arduino.
- The LED's anode is connected to digital pin 13 of the Arduino.
- The LED's cathode is connected to the GND pin of the Arduino.

The code in the Serial Monitor is as follows:

```
// C++ code
1 //
2 int gasSensor=A1;
3 int buzzer=13;
4 int led=12;
5 void setup()
6 {
7   pinMode(A1, INPUT);
8   pinMode(buzzer, OUTPUT);
9   pinMode(led, OUTPUT);
10  Serial.begin(9600);
11 }
12
13 void loop()
14 {
15   int sensorValue=analogRead(gasSensor);
16   Serial.print("GAS LEVEL:");
17   Serial.println(sensorValue);
18   delay(1000);
19   if (sensorValue>250)
20   {
21     digitalWrite(buzzer,HIGH);
22     digitalWrite(led,HIGH);
23   }
24   else
25   {
26     digitalWrite(buzzer,LOW);
27     digitalWrite(led,LOW);
28   }
29 }
30
31
32
33
34
```

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