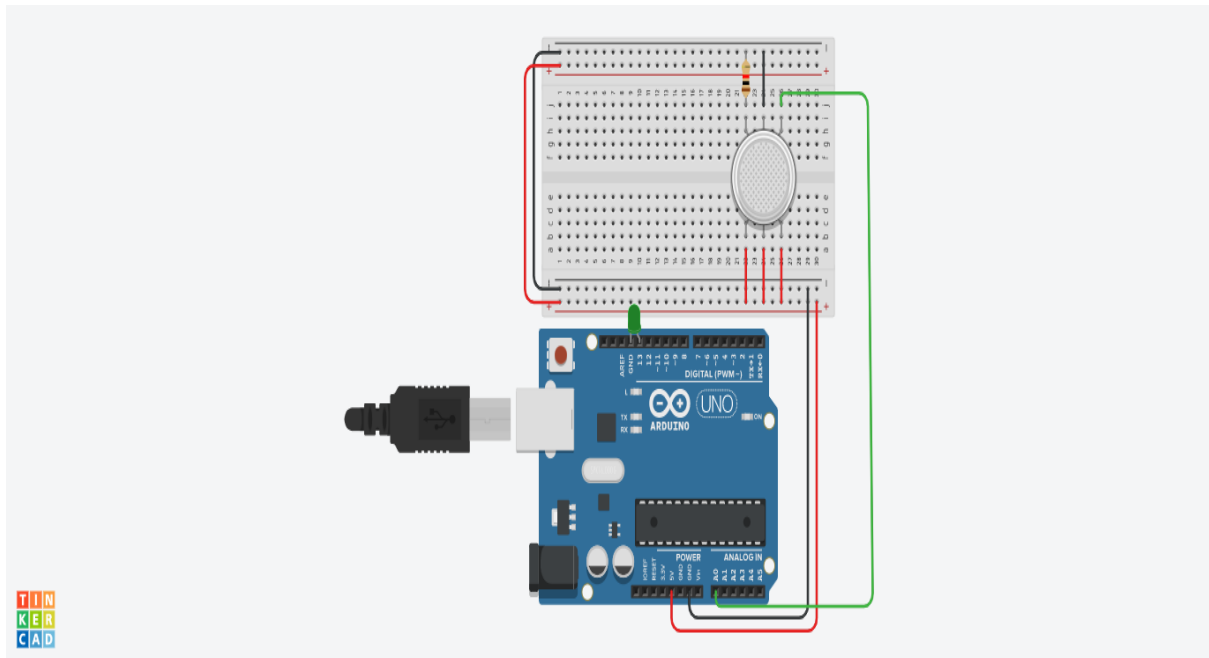# Program no____10____

Program Title_____ GAS detector_____

Aim to detect the presence of GAS.

Hardware Required

- Arduino Board
- Gas sensor
- Led
- resistor

Circuit Diagram

Code

Program

GAS detector

Code

```
int redled = 13;
int Smoke = A0;
void setup()
{
    Pinmode (redled, OUTPUT);
    Serial.begin(9600);
}

void loop()
{
int analog Sensor = analogRead (smoke);
Serial.println (analogSensor);
if (analogSensor >= 100)
{
    digitalwrite (redled, HIGH);
    Serial.println ("SMOKE DETECTED");
}
else
{
    digitalwrite (redled, LOW);
    Serial.println ("NO SMOKE DETECTED");
}
delay (1000);
}
```

Observation /Output

Gas will be detected.

Simulator time: 00:00:02

```
 5      pinMode(redLed, OUTPUT);
 6      Serial.begin(9600);
 7    }
 8
 9    void loop()
10    {
11      int analogSensor = analogRead(smoke);
12      Serial.println(analogSensor);
13      if(analogSensor >= 100)
14      {
15        digitalWrite(redLed, HIGH);
16        Serial.println("SMOKE DETECTED");
17      }
18      else
19      {
20          digitalWrite(redLed, LOW);
21          Serial.println("NO SMOKE DETECTED");
22      }
23      delay(1000);
```

Serial Monitor

```
110
SMOKE DETECTED
85
NO SMOKE DETECTED
110
SMOKE DETECTED
110
SMOKE DETECTED
```