# Lab 5 : Program 11

Date: 14/10/20

Experiment : Gas Sensor

Aim: To detect leakage of gas using Gas sensor

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Hardware:

- Buzzer
- LED
- Arduino Uno
- Resistor: 220 Ohm
- Gas Sensor

Source :

```
int sensor = A0;

int led = 13 ;

int val ;

int threshold = 100 ;


void setup()
{
    Serial.begin(9600);
}


void loop()
{
  val = analogRead(sensor);
    Serial.println( val);
  if(val>threshold){
    digitalWrite(led,HIGH);
  }
  else {
  digitalWrite(led,LOW);
  }
    delay(500);
}
```
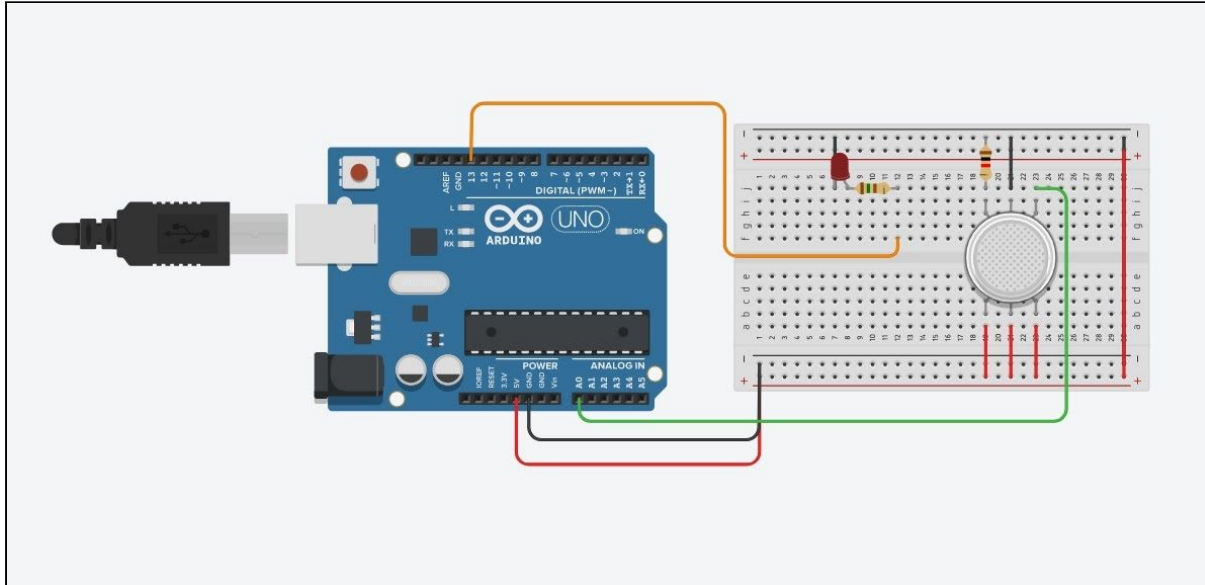
Observation: The LED glows and buzzer makes noise when gas is detected by the sensor

Circuit :



Write Up :

## Source Code

```
int sensor = A0;
int led = 13 , buzzer =12;
int val ;
int threshold = 100;
void setup ()
{  Serial.begin (9600);
}

void loop()
{
    val = analogRead (sensor);
    Serial.print (val);
    if (val > threshold)
    {   digitalWrite (led, HIGH);
        digitalWrite (buzzer, HIGH);
    }
    else
    { digitalWrite ( led, Low);
      digitalWrite ( buzzer, Low);
    }
    delay (500);
}
```