

# IOT LAB - 5th Sem

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Program Title : Gas Sensor

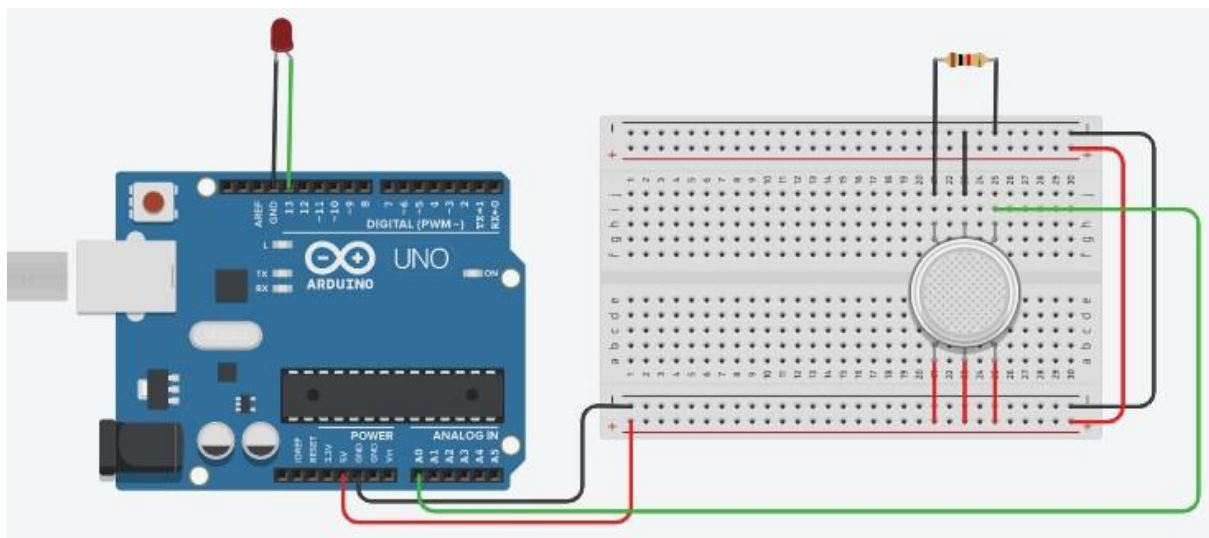
Aim :

To notify if there is a gas leakage near the sensor using an Arduino Uno board.

Hardware Required :

- Arduino Uno Board
- LED
- 330 Ohms Resistor
- Gas Sensor

Circuit Diagram :



Written Code :

## 12) Gas - Detection

```
int const gasPin = A0;
```

```
int red = 12;
```

```
int orange = 9;
```

```
int green = 7;
```

```
void setup()
```

```
{
```

```
  pinMode (12, OUTPUT);
```

```
  pinMode (orange, OUTPUT);
```

```
  pinMode (green, OUTPUT);
```

```
  Serial.begin(9600);
```

```
}
```

```
void loop()
```

```
  int value = analogRead(gasPin);
```

```
  Serial.print("Gas value=");
```

```
  Serial.print(value);
```

```
  Serial.println("");
```

```
  digitalWrite(green, HIGH);
```

```
digitalWrite(orange, value >= 90 ? HIGH : LOW);  
digitalWrite(red, value >= 150 ? HIGH : LOW);  
delay(100);  
}
```

**Observation /Output :**

The LED is turned on when gas is detected.