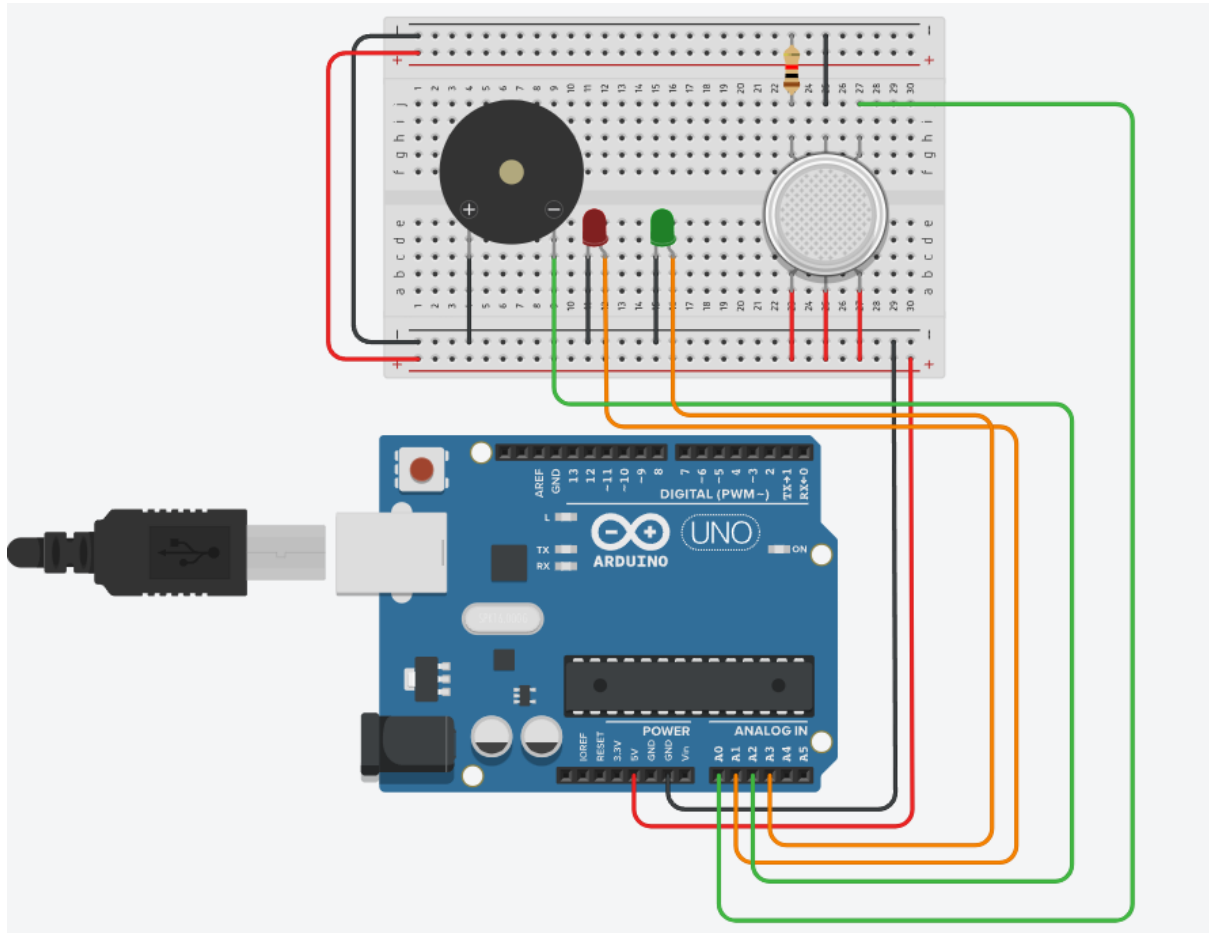


Experiment 8 : Develop a program to detect the gas leakage in the surrounding environment.

Circuit Diagram:



Code:

```
int LED = A1;      //Red LED
int LED1 = A3;      //Green LED
int gas_pin = A0;    // For Gas Sensor
int buzzer_pin = A2; // For Buzzer
```

```
void setup()
```

```

{
  Serial.begin(9600);
  pinMode (buzzer_pin, OUTPUT);
  pinMode (gas_pin, INPUT);
  pinMode(LED, OUTPUT);
  pinMode(LED1, OUTPUT);
}

void loop() {
  float sensorValue;

  sensorValue = analogRead(gas_pin); // read analog input pin 0


  if(sensorValue >= 300)
  {
    digitalWrite(LED,HIGH);
    digitalWrite(LED1,LOW);


    digitalWrite (buzzer_pin, HIGH);
    //Serial.println();
    Serial.print(sensorValue);
    Serial.println(" | SMOKE DETECTED |");
  }

  else
  {
    digitalWrite(LED,LOW);
    digitalWrite(LED1,HIGH);
  }
}

```

```
digitalWrite (buzzer_pin, LOW);  
Serial.println();  
Serial.println("Sensor Value: ");  
Serial.print(sensorValue);  
//Serial.print(" | Safe Mode |");  
}  
  
delay(1000);  
  
}
```

Output:

