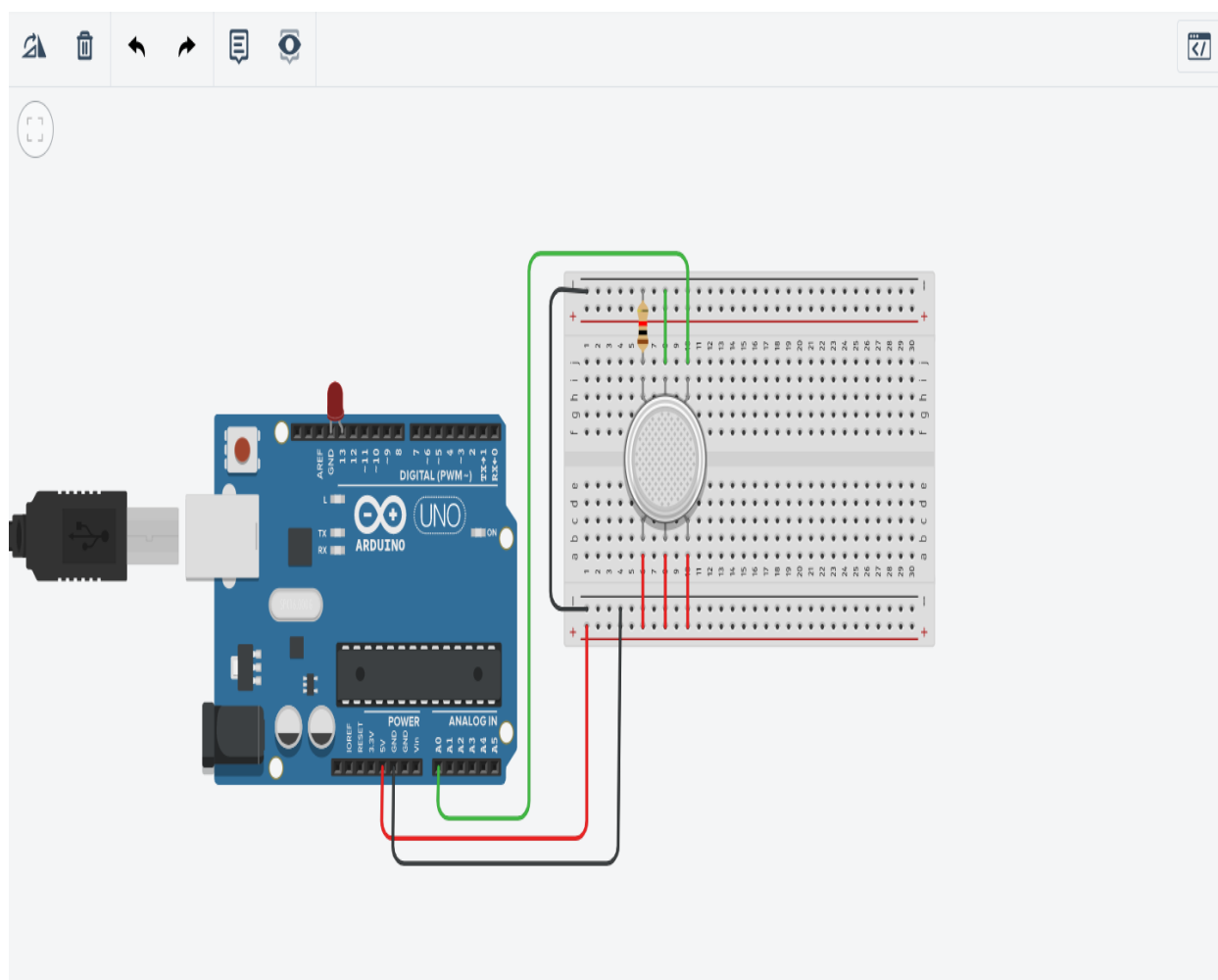# Program no   11

Program Title   Gas Detector

Aim : To Design a circuit glow LED when gas detected

Hardware Required

- Arduino Board
- Wires
- Gas detector
- LED
- Resistor

Circuit Diagram

Writeup :

```
Program No-11                    Pramod D.Y
Gas Detector                     IBM19CS405

int LED = 13
int smok = A0;

void setup()
{
    pinMode(LED, OUTPUT);
    pinMode(smok, INPUT);
    Serial.begin(9600);
}

void loop()
{
    if(analogRead(smok) >= 100)
    {
        Serial.print(analogRead(smok))
        Serial.print("Smoke Detected");
    }
    else
    {
        Serial.print("Smoke Not Detected");
    }
}
```

CODE:

```
int LED=13;
int smok=A0;
void setup()
{
  pinMode(13, OUTPUT);
  Serial.begin(9600);
}

void loop()
{
if(analogRead(smok)>=100)
  {
    Serial.println("somke deteced");
    Serial.print(analogRead(smok));
    digitalWrite(LED,HIGH);
  }
 else
 {
   Serial.println("somke NOT deteced");
   digitalWrite(LED,LOW);
 }
```

Observation /Output