Program no : 11

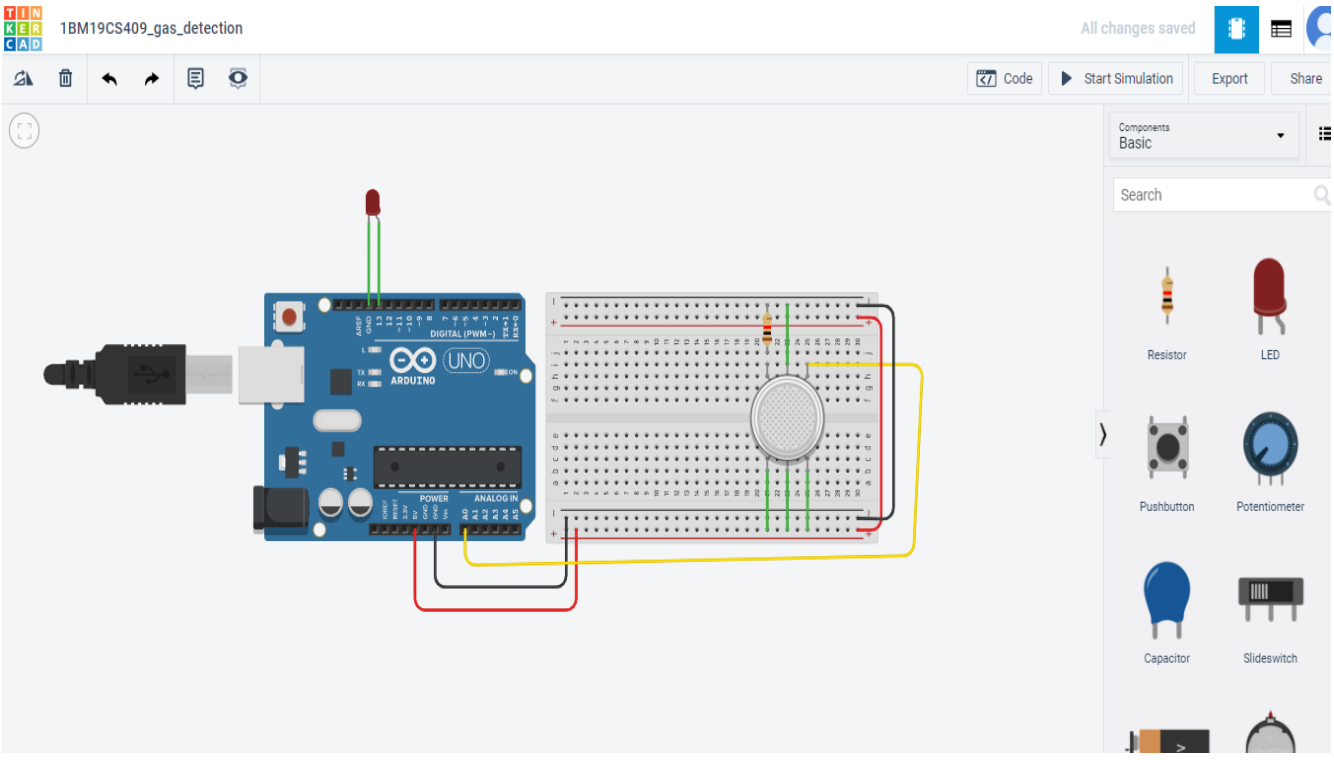
Program Title : Gas detector

Aim : Designing a circuit to glow LED when the gas is detected.

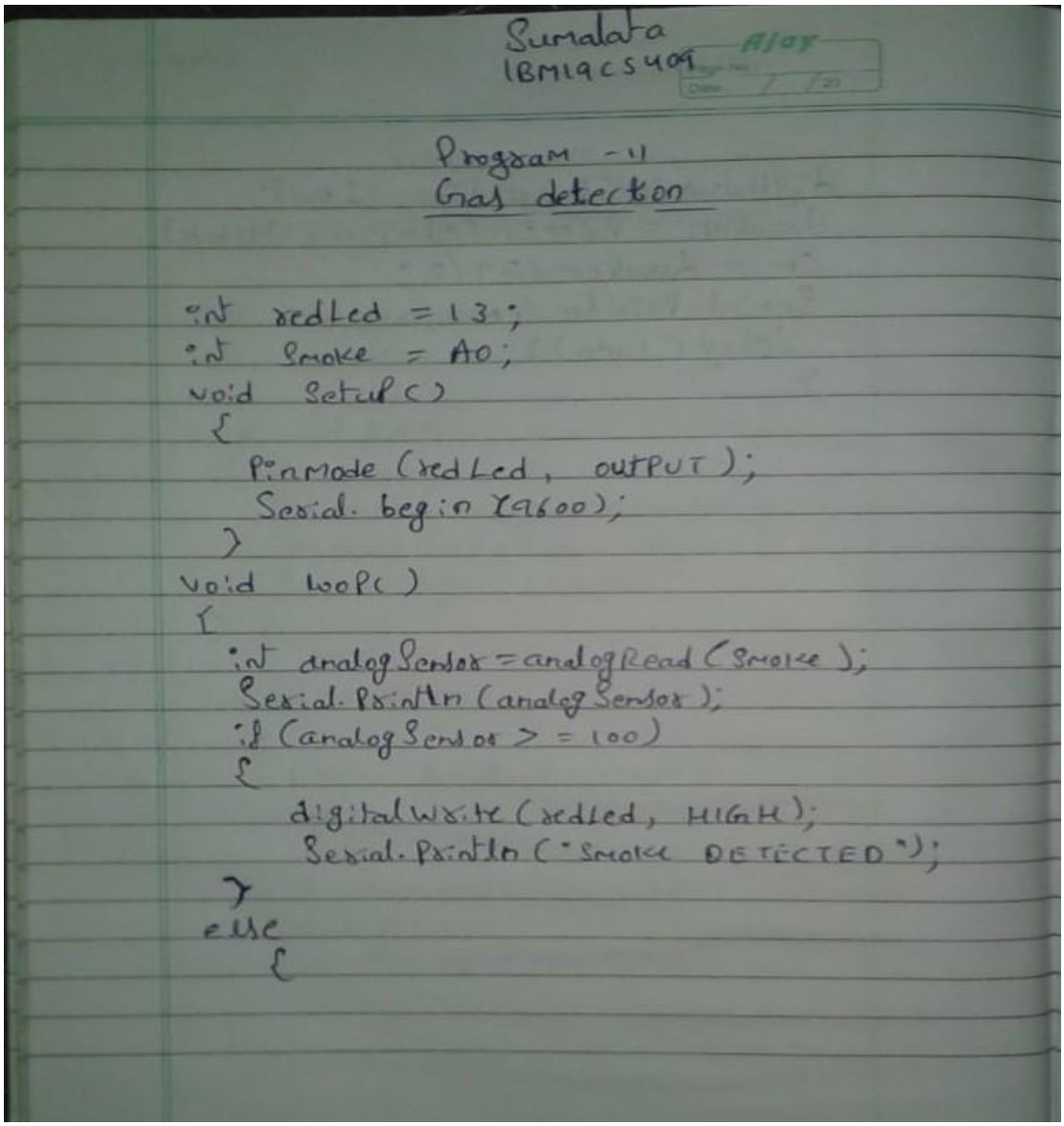
Hardware Required

- Arduino Board
- Wires
- Breadboard
- LED
- Gas sensor
- Resistor

Circuit Diagram :



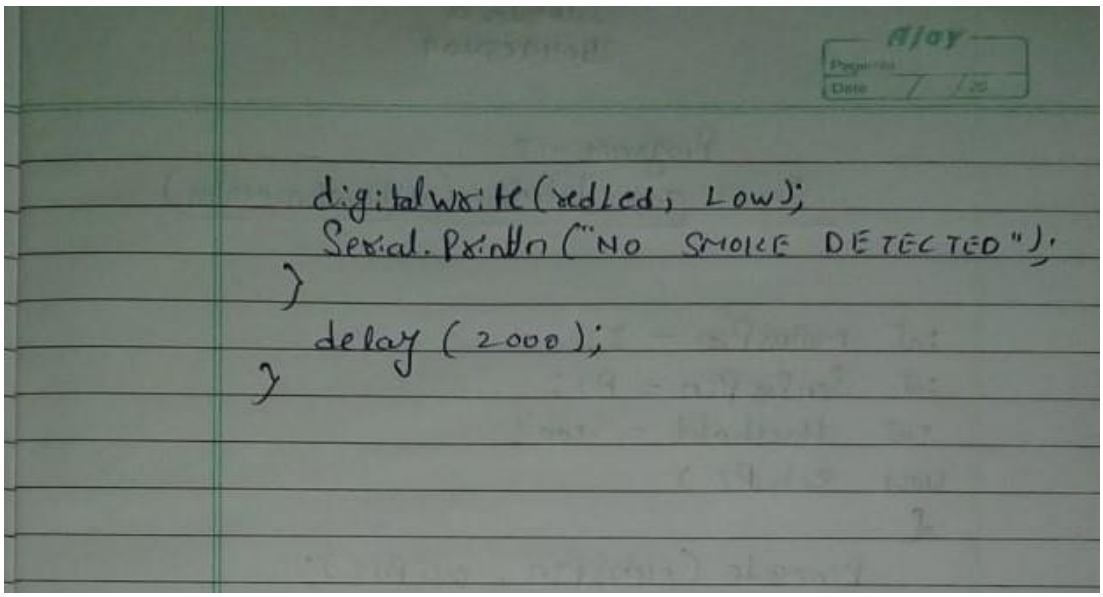
Code:



Sumalata
1BM19CS409

Program - 11
Gas detection

```
int redLed = 13;
int Smoke = A0;
void Setup()
 {
   PinMode (redLed, OUTPUT);
   Serial. begin (9600);
 }
void loop()
{
  int analogSensor = 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 (2000);
}
```

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

void loop()
{
  int analogSensor = 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(2000);
}
```

Observation /Output :