

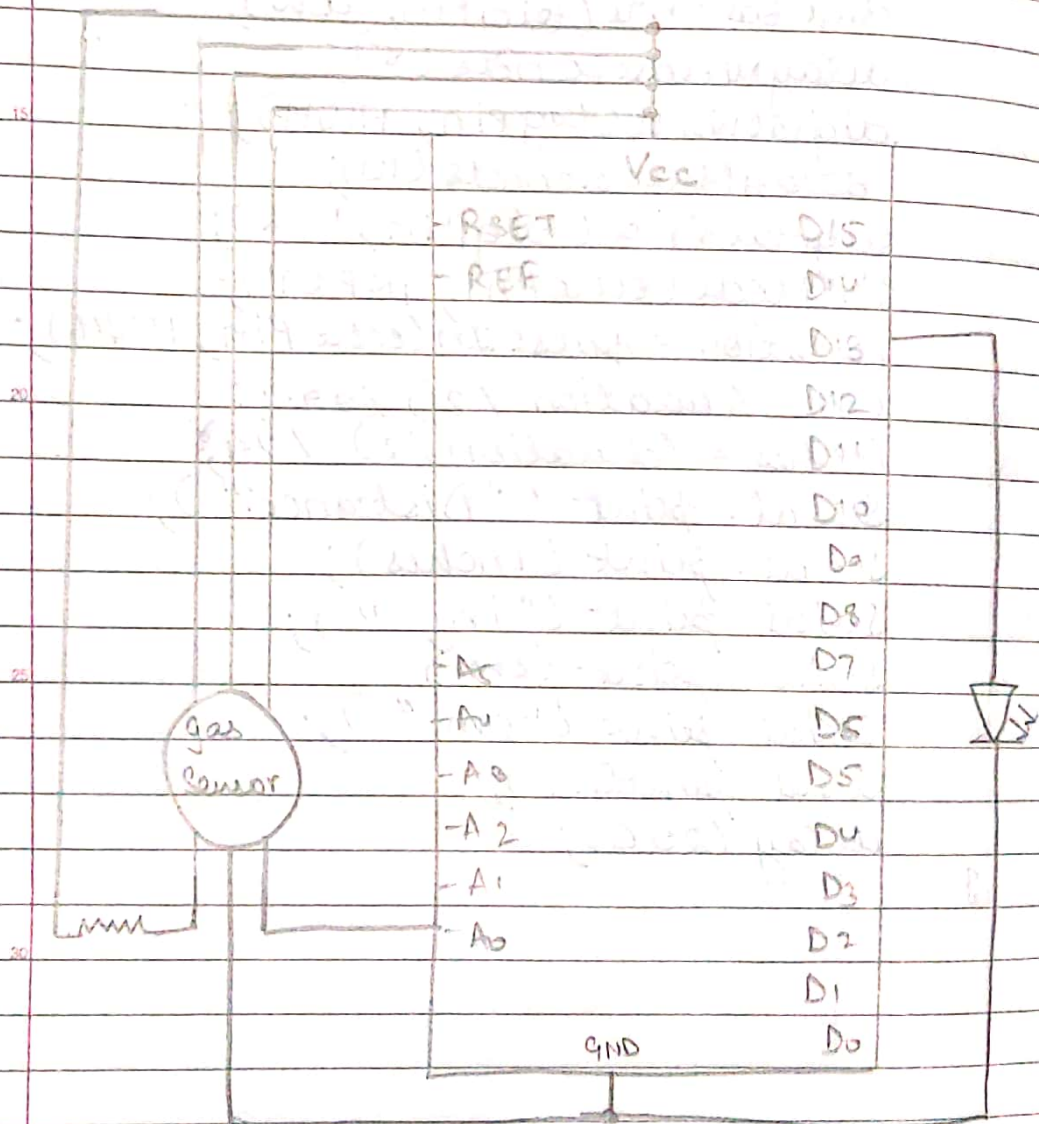
PROGRAM NO: 11

PROGRAM TITLE: Smoke detector

AIM: Design a smart gas leakage indicator system (Gas sensor and LED).

HARDWARE REQUIREMENTS: Arduino Board, LED, Resistor, Bread board, Gas sensor

CIRCUIT DIAGRAM:



CODE:

```
int led = 18;
const int gas = 0;
int gaspin = A0;
void setup()
{
    Serial.begin(9600);
}
void loop()
{
    float sensorValue = analogRead(gaspin);
    if (sensorValue >= 250)
    {
        digitalWrite(led, HIGH);
        Serial.print(sensorValue);
        Serial.print("Alert Smoke Detected");
        delay(sensorValue);
    }
    else
    {
        digitalWrite(led, LOW);
        Serial.print("sensor value: ");
        Serial.println(sensorValue);
        Serial.println("SAFE!!");
    }
    delay(1000);
}
```