USN: 1BM18CS103

PROGRAM: 10

PROGRAM TITLE: Smart Gas Leakage indicator.

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

Hardware Requirement:

- Arduino
- Gas Sensor
- Bread board
- Resistor
- LED

CODE:

```
int led = 13;
const int gas = 0;
int gasPin = A0;
void setup()
{
    Serial.begin(9600);
}
void loop()
{
    float sensorValue = analogRead(gasPin);
    if(sensorValue > 300)
    {
        digitalWrite(led, HIGH);
        Serial.print(sensorValue);
```

```
        Serial.println(" *** SMOKE DETECTED *** ");
        delay (sensorValue);
    }
else
    {
        digitalWrite (led, LOW);
        Serial.println (" Serial Value : ");
        Serial.println (sensorValue);
    }
    delay (1000);
}
```

DIAGRAM

Gas
Sensor

RSET
REF

Vcc

A5
A4
A3
A2
A1
A0

GND.

D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0