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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("Sensor Value: ");
Serial.println(SensorValue);
}
delay(1000);
}

```

* Diagram -

