

Program no____**11**_____

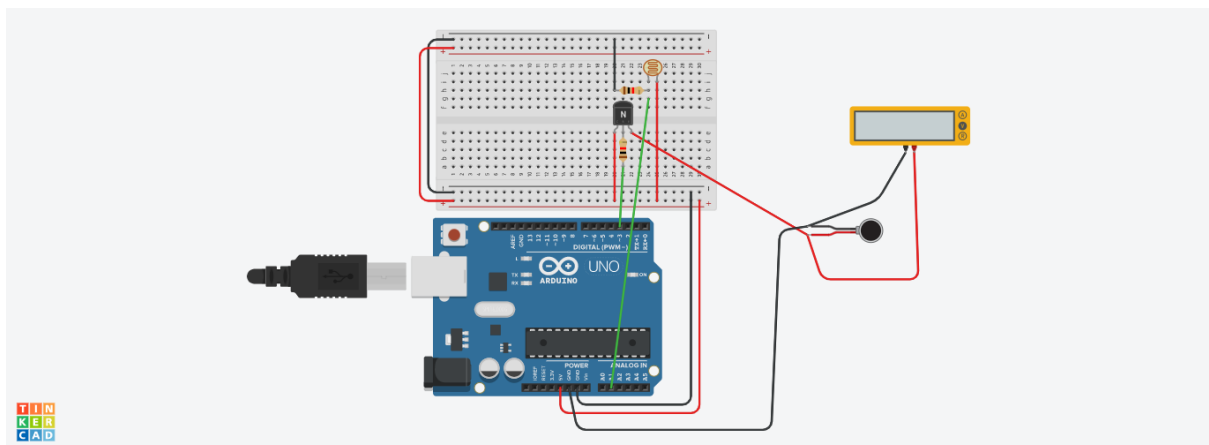
Program Title_____ **smart GAS detector**_____

Aim vibration motor must vibrate

Hardware Required

- Arduino Board
- NPN transistor
- Vibration motor
- Resistor
- Photoresistor
- multimeter

Circuit Diagram



Code:

Abhishek R
IBM19CS400

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Program Smart gas

Coder

```
int motorpin = 3;
int Sensorpin = A1;
int threshold = 400;
void Setup()
{
    pinMode(motorpin, OUTPUT);
    Serial.begin(9600);
}
void loop()
{
    int SensorValue = analogRead(Sensorpin);
    Serial.println(SensorValue);
    if (SensorValue > threshold)
    {
        digitalWrite(motorpin, HIGH);
    }
    else
    {
        digitalWrite(motorpin, LOW);
    }
}
```

Abhishek R

Observation /Output

Vibration motor will vibrate.

TIN K E R C A D smart gas_1BM19CS400 All changes saved

Simulator time: 00:00:00.206

Code Stop Simulation Export Share

1 (Arduino Uno R3)

Photoresistor
Name 2

4.11 V

```
1 int motorpin=3;
2 int sensorpin=A1;
3 int threshold=400;
4
5 void setup(){
6   pinMode(motorpin, OUTPUT);
7   Serial.begin(9600);
8 }
9
10 void loop(){
11   int sensorvalue=analogRead(sensorpin);
12   Serial.println(sensorvalue);
13   if(sensorvalue>threshold){
14     digitalWrite(motorpin, HIGH);
15   }
16 }
```

Serial Monitor

464
464
464
464
464
464
4

Send Clear

