

DEVELOPING THE CODE

```
const int mq2Pin = 2;  
const int buzzerPin = 3;  
const int relayPin = 4;  
const int servoPin = 5;  
  
#include <Servo.h>  
  
Servo myservo;  
  
void setup() {  
    pinMode(mq2Pin, INPUT);  
    pinMode(buzzerPin, OUTPUT);  
    pinMode(relayPin, OUTPUT);  
    pinMode(servoPin, OUTPUT);  
    myservo.attach(servoPin);  
}  
  
void loop() {  
    int gasValue = digitalRead(mq2Pin);  
    if (gasValue == LOW) {  
        activateAlarm();  
        activateRelay();  
        turnOnServo();  
    }  
    else {  
        deactivateAlarm();  
    }  
}
```

```
deactivateRelay();  
turnOffServo();  
}  
}  
  
void activateAlarm() {  
    digitalWrite(buzzerPin, HIGH);  
}  
  
void deactivateAlarm() {  
    29  
    digitalWrite(buzzerPin, LOW);  
}  
  
void activateRelay() {  
    digitalWrite(relayPin, LOW);  
}  
  
void deactivateRelay() {  
    digitalWrite(relayPin, HIGH);  
}  
  
void turnOnServo() {  
    myservo.write(90);  
}  
  
void turnOffServo() {  
    myservo.write(0);  
}
```