Codes for MQ-2 Gas/ Smoke Sensor with Arduino:

int ledPinRed = 12; // Pin number for the red LED

int ledPinGreen = 11; // Pin number for the green LED

int buzzerPin = 10; // Pin number for the buzzer

int smokeSensorPin = A5; // Analog input pin for the smoke sensor

int sensorThreshold = 400; // Threshold value for smoke detection

void setup() {

pinMode(ledPinRed, OUTPUT);

pinMode(ledPinGreen, OUTPUT);

pinMode(buzzerPin, OUTPUT);

pinMode(smokeSensorPin, INPUT);

Serial.begin(9600);

}

void loop() {

int analogSensor = analogRead(smokeSensorPin);

Serial.print("Smoke Sensor Reading: ");

Serial.println(analogSensor);

// Checks if the smoke sensor reading has reached the threshold value

if (analogSensor > sensorThreshold)

{

digitalWrite(ledPinRed, HIGH);

digitalWrite(ledPinGreen, LOW);

tone(buzzerPin, 1000, 200);

}

else

{

digitalWrite(ledPinRed, LOW);

digitalWrite(ledPinGreen, HIGH);

noTone(buzzerPin);

}

delay(100);

}