```
#include <LiquidCrystal.h> // Header file for LCD
const int rs=12, en=11, d4=5, d5=4, d6=3, d7=2; // Pins of LCD connected to Arduino
LiquidCrystal lcd(rs,en,d4,d5,d6,d7); // lcd function from LiquidCrystal
int buz=8; // buzzer connected to pin 8
int led=9; // led connected to pin 9
const int aq_sensor=A0 // output of mq135 connected to A0 pin of Arduino.
int threshold=250; // Threshold level for Air Quality
void setup()
{
pinMode(buz,OUTPUT); // buzzer is connected as Output from Arduino
pinMode(led,OUTPUT; // led is connected as output from Arduino
pinMode(aq_sensor,INPUT); // MQ135 is connected as INPUT to Arduino
Serial.begin(9600); // begin serial communication with baud rate of 9600
lcd.clear(); // clear lcd
lcd.begin(16,2); // consider 16,2 lcd
}
void loop()
{
int ppm=analogRead(aq_sensor); // read MQ135 analog outputs at A0 and store it in ppm.
Serial.print("Air Quality: "); // print msg in serial Monitor.
Serial.println(ppm); // print value of ppm in serial monitor
lcd.setCursor(0,0); // set cursor of lcd to 1st row and 1st column
lcd.print("Air Quality: ") // print msg on lcd
lcd.print(ppm); // Print value of MQ135
```

```
if (ppm > threshold) //check is ppm > threshold or not
  {
   lcd.setCursor(1,1); //jump here if ppm > threshold1.
   lcd.print("AQ level HIGH");
   Serial.println("AQ level HIGH");
   tone(led, 1000, 200); //blink led with turn on time 1000ms,
                          turn off time 200ms
   digitalWrite(buz, HIGH); //Turn ON Buzzer
  }
else
  {
  digitalWrite(led, LOW); //jump here if ppm < threshold and
                           turn off LED
  digitalWrite(buz, LOW); //Turn off Buzzer
  lcd.setCursor(1,1);
  lcd.print("AQ level Good")
  Serial.println("AQ level Good");
  }
  delay(500);
}
```