```
#include <LiquidCrystal.h>
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);
int pin8 = 8;
int analogPin = A0;
int sensorValue = 0;
void setup() {
  pinMode(analogPin, INPUT);
  pinMode(pin8, OUTPUT);
  lcd.begin(16, 2);
  lcd.print("What is the air ");
  lcd.print("quality today?");
  Serial.begin(9600);
  lcd.display();
}
void loop() {
  delay(100);
  sensorValue = analogRead(analogPin);
  Serial.print("Air Quality in PPM = ");
  Serial.println(sensorValue);
 lcd.clear();
  lcd.setCursor(0,0);
  lcd.print ("Air Quality: ");
  lcd.print (sensorValue);
  if (sensorValue<=500)</pre>
   Serial.print("Fresh Air ");
   Serial.print ("\r\n");
   lcd.setCursor(0,1);
   lcd.print("Fresh Air");
  else if( sensorValue>=500 && sensorValue<=650 )
   Serial.print("Poor Air");
   Serial.print ("\r\n");
   lcd.setCursor(0,1);
   lcd.print("Poor Air");
  else if (sensorValue>=650 )
   Serial.print("Very Poor Air");
   Serial.print ("\r\n");
   lcd.setCursor(0,1);
```

```
lcd.print("Very Poor Air");
}

if (sensorValue >650) {
   digitalWrite(pin8, HIGH);
}
else {
   digitalWrite(pin8, LOW);
}
```