```
#include<LiquidCrystal.h>
const int RS = D6, EN = D5, d4 = D1, d5 = D2, d6 = D3, d7 = D4;
LiquidCrystal lcd(RS, EN, d4, d5, d6, d7);

#include <ESP8266WiFi.h>

const char* ssid     = "wifi003";
const char* password = "12345678";

const char* host = "iotproject19-20.000webhostapp.com";
const char* streamId   = ".....";
const char* privateKey = ".....";

const int trigPin = D7;
const int echoPin = D8;
//define sound velocity in cm/uS
#define SOUND_VELOCITY 0.034
#define CM_TO_INCH 0.393701

const int gs = D0;
int it=0;
int lvl=0;
long duration;
float distanceCm;
float distanceInch;
```

```
const int alarm = D8;
void setup() {
  Serial.begin(115200);
  lcd.begin(16, 2);
  lcd.setCursor(0,0);
   lcd.print("Garbage Level");
   lcd.setCursor(0,1);
   lcd.print("  Monitor ");
   pinMode(trigPin, OUTPUT); // Sets the trigPin as an Output
  pinMode(echoPin, INPUT); // Sets the echoPin as an Input

  pinMode(alarm,OUTPUT);
  digitalWrite(alarm,LOW);
pinMode(gs, INPUT);
  delay(10);

  Serial.println();
  Serial.println();
  Serial.print("Connecting to ");
  Serial.println(ssid);

  WiFi.begin(ssid, password);

}
```

```
int value = 0;


void loop() {
  delay(1000);
  ++value;
 // Clears the trigPin
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  // Sets the trigPin on HIGH state for 10 micro seconds
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);


  // Reads the echoPin, returns the sound wave travel time in microseconds
  duration = pulseIn(echoPin, HIGH);


  // Calculate the distance
  distanceCm = duration * SOUND_VELOCITY/2;


  if(distanceCm>100)
  {
    distanceCm=100;
    }
    lvl = 100-distanceCm;
```

```
 lcd.clear();
 lcd.setCursor(0,0);
 lcd.print("Level:");
 lcd.print(lvl);



  lcd.setCursor(0,1);
 lcd.print("Gas  :");
 gssen();




 String url = "GET http://iotproject19-20.000webhostapp.com/dustbin/update.php?lvl="; // Getting info from my online database through my online website
 url+=lvl;
 url+="&gs=";
 url+=it;







 }


void gssen()
{
```

```
 if(!digitalRead(D0))
 {
  it=1;
 lcd.setCursor(6,1);
 lcd.print("    ");
 lcd.setCursor(6,1);
 lcd.print("HIGH");
  }
  else
  {
  it=0;
 lcd.setCursor(6,1);
 lcd.print("    ");
 lcd.setCursor(6,1);
 lcd.print("LOW");
    }
}
```