- Design 10T based pollution control system which monitor co, ammonia etc and gives alarm or send message.
- @ Requirements

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- 1) Hardware Requirements:
 - * MQ135 Gas sensor
 - * Arduino uno
 - * Wifi module ESP8266
 - * 16x2 LCD
 - * Breadboard
 - * 10 K Potentiometer
 - * IK ohm resistors
 - * 220 ohm resiston
 - * Buzzer
 - * MQ 6 LPG Gas senson
 - * Temperature sensor LM35
 - * Humidity sensor SV-H5220

में देव गरी कि जिंद वार्ष तथा कि के मार अजय हो।

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Software requirements

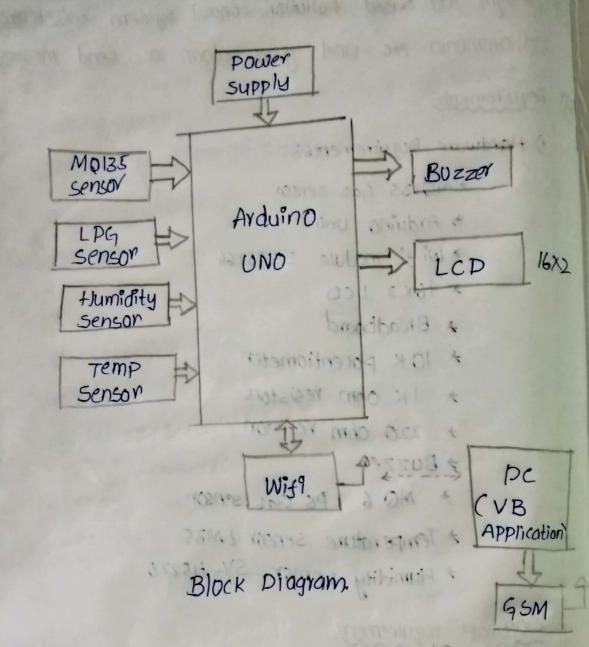
in Arduino 1.6.13 software

2) Embedded c longuage

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Procedure:

*First of all we will connect the Esp8266 with

* connect the vcc and (H_PD to the 3.3V Pin of Avduino.

The Rx Pin of ESP8266 works on 3.3V and will not communicate with the Avduing.

- * connect the TX pin of Esp8266 to the pinto of the Arduino and the RX pin of the espaiss to the pin 9 of Arduino through the resistors.
- * ESP8266 Wi-fi module gives your projects access to wi-si or internat.
- * Then connect the MQ135 sensor with the arduino. connect the VCC and the ground pin of the sensor to the SV and ground of the Arduino and Analog pin of garson to Ao of the Arduino
- A In last, we will connect LCD with the
 - * connect pin1 (VEE) to ground

 - * connect Pin2 to the 5v.

 *connect Pin3 (vo) to the middle pin of the lok

- 3 Connect Pin 4 (RS) to the Pin 12 of the Arduing

 - * connect pins to ground of Arduino

 - * connect pin 6 to the pin 11 of the Arduino

 * connect Pin 11 to pin 5 of the Arduin o connect Pin12 to Pin4 of the Arduino
 - connect pin13 to pin3 of Arduino
- connect Pin 14 to Pin 2 of Arduino

 * connect Pin 15 to vcc through 220 ~ vesistor

 * connect Pin 15

(onnect -Pin16 to ground

```
code:
 # define MQZpin 5
 # define buzz 350
  float sensorvalue;
  serial-begin (9600);
  void setup() {
  void loop(). {
sensor value = analog Read(0);
  input pin o
      senal print ("Airqua = ")
      if (buzze sensorvalue) &
       if (sensorvalue > 350 && sensorvalue < 450) {
              Serial println ("CO2 gas is Detected"),
        else if (sensorvalue > 650 && sensorvalue < 560) {
             serial-println(" co and N2 gases detected").
         Serial-println ("crossed limit");
          else
             serial println ("not crossed limit");
Serial-print (sensorvalue, D.F.C);
         serial println ("Ppon");
         delay (1000);
```

output: not crossed limet Air Qua = 310 not crossed limit AirQua = 330 not crossed limit Airqua = 370 coz gas detected crossed limit Air Dua = 410 coz gas detected crossed limit . broad bond to Air Qua = 490 co, Nz gases doctected crossed limit at a split of the state of co and Nz gases detected Air Qua= 510 crossed limit V2 05 mig 1-901 . co and No gases detected crossed limit. CO 01 F-10000 Exion & 40 oc moios ground wife KITCHER 5 TO DO MONTON POWER bottom a st postion o ping to another with any supplied the good com story &