Experiment 3.1

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Subject Name: IOT LAB   **Subject Code: 20CSP_358**

1. Aim:

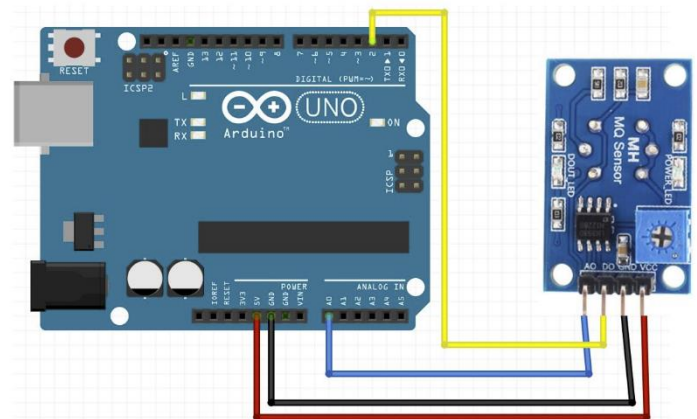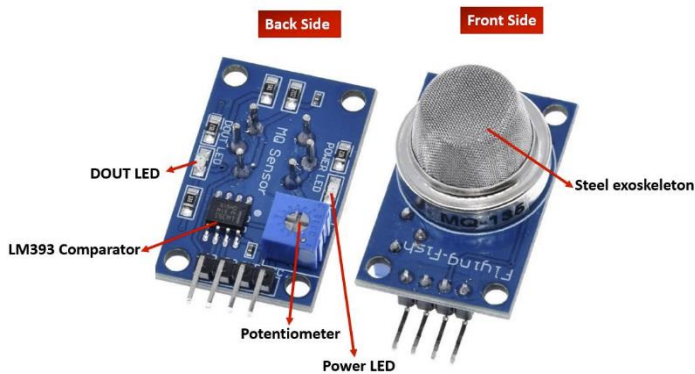Interfacing Air Quality Sensor (MQ135), displays data on LCD.

2. Objective:

- Learn about IoT based simulations.
- Learning the circuitry.

3. Code-Output:

- Hardware Requirement
    - o Arduino Uno
    - o LCD 16x2
    - o Jumper Wire

- ➢ Circuitry


```
int sensorValue;
int digitalValue;

void setup()
{
  Serial.begin(9600); // sets the serial port to 9600
  pinMode(13, OUTPUT);
  pinMode(2, INPUT);
}

void loop()
{
  sensorValue = analogRead(0); // read analog input pin 0
  digitalValue = digitalRead(2);
  if (sensorValue > 400)
  {
```

```
    digitalWrite(13, HIGH);
  }
  else
    digitalWrite(13, LOW);
  Serial.println(sensorValue, DEC); // prints the value read
  Serial.println(digitalValue, DEC);
  delay(1000); // wait 100ms for next reading
}
```

OUTPUT : -