

WORKSHEET

Class: 20bcs26-B Group No: 05

Group Members Details

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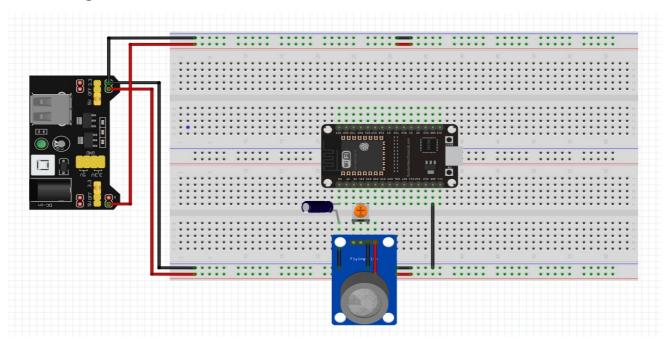
Task:

Design an air quality monitoring system using an IoT analytics platform service.

Requirements:

- PC with Arduino
- Connecting Wires
- Breadboard
- DOIT ESP32 DEVKIT V1
- 10uF Electrolytic Capacitor
- Wire Clipper
- USB Type A to Micro USB Cable
- DC 5V Power Supply
- DC 3.3V Power Supply
- MQ135
- 1K Trimpot

Circuit Diagram:





Code (if any):

```
1 /*
 2 * Board: DOIT ESP32 DEVKIT v1
 3 * Sensor: MQ-135
 5 #include <UbidotsESPMQTT.h>
 7 #define MQ135 34
9 #define TOKEN "BBFF-onT8uqf2rGdmVmqqqckee6HyxFlE2d"
10 #define WIFISSID "Joker" // Your SSID
11 #define WIFIPASS "Joker@tenda" // Your Wifi Pass
                                                                    // Your Ubidots TOKEN
13 Ubidots client (TOKEN);
void callback(char* topic, byte* payload, unsigned int length) {
16 Serial.print("Message arrived [");
17 Serial.print(topic);
18 Serial.print("] ");
19 for (int i = 0; i < length; i++) {
20
       Serial.print((char)payload[i]);
22 Serial.println();
23 }
24
25 void setup() {
    Serial.begin(9600);
27
    Serial.println("Init... T3_Air_Quality");
28
    Serial.print("Connecting to SSID: ");
29
     Serial.print(WIFISSID);
30
     Serial.print(", Password: ");
```

Dashboard Snippet (if any):





Outcome:

- Using ibdots designed a air quality monitoring system.
- Learnt to use fritzing to make circuit diagrams.
- Learnt to Arduino to upload code to Arduino ic.