

SPRINT – 4

DATE	14 NOVEMBER 2022
TEAM ID	PNT2022TMID11512
PROJECT NAME	SMART WASTE MANAGEMENT FOR METROPOLITAN CITIES-IOT

WOWKI OUTPUT :

```

1 #include <WiFi.h> // library for wifi
2 #include <PubSubClient.h> // library for MQTT
3 #include <LiquidCrystal_I2C.h>
4 LiquidCrystal_I2C lcd(0x27, 20, 4);
5
6 //----- credentials of IBM Accounts -----
7
8 #define ORG "cbseji" // IBM organisation id
9 #define DEVICE_TYPE "abcd" // Device type mentioned in the Watson IoT platform
10 #define DEVICE_ID "1234" // Device ID mentioned in the Watson IoT platform
11 #define TOKEN "12345678" // Token
12
13 //----- customise above values -----
14
15 char server[] = ORG ".messaging.internetofthings.ibmcloud.com"; // server name
16 char publishTopic[] = "iot-2/cmd/evt/string"; // topic name and type of event perform
17 char topic[] = "iot-2/cmd/led/tm/string"; // cmd Represent type and command is test
18 char authMethod[] = "use-token-auth"; // authentication method
19 char token[] = TOKEN;
20 char clientId[] = "d-" ORG "-" DEVICE_TYPE "-" DEVICE_ID; // Client id
21
22 //-----
23
24 WiFiClient wifiClient; // creating instance for wifi client
25 PubSubClient client(server, 8883, wifiClient);
26
27 #define ECHO_PIN 12
28 #define TRIG_PIN 13
29 float dist;
30
31 void setup()
32 {
33   Serial.begin(115200);
34   pinMode(LED_BUILTIN, OUTPUT);
35   pinMode(TRIG_PIN, OUTPUT);
36   pinMode(ECHO_PIN, INPUT);
37   //pin pin
38   pinMode(34, INPUT);
39
40   //led pin
41   pinMode(25, OUTPUT);
42   pinMode(2, OUTPUT);
43   pinMode(4, OUTPUT);
44   pinMode(15, OUTPUT);
45
46   lcd.init();
47   lcd.backlight();
48

```

Connecting to Wifi. Wifi connected, IP address: 10.10.0.2
Reconnecting MQTT client to cbseji.messaging.internetofthings.ibmcloud.com
IBM subscribe to cmd OK

IBM Watson IoT Platform

Search by Device ID

Device ID	Status	Device Type	Class ID
1234	Disconnected	abcd	Device

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last
eventbatch11	{"randomNumber":81,"level":45,"weight":223}	json	a fe

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Device Type: abcd

Events 1

Event type name: eventbatch11

Schedule: 1 Every Minute

Payload: Specify the event payload in the editor window or by uploading a CSV file.

```

0 {
1   "randomNumber": random(0,100)
2   "level": random(0,100)
3   "weight": random(0,1000)
4 }
5

```

Upload a CSV file

Cancel Save

