

## SPRINT – 4

DATE	18 NOVEMBER 2022
TEAM ID	PNT2022TMID34218
PROJECT NAME	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

### 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 ONG "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 //----- customize above values -----
14
15 char server[] = ONG ".messaging.internetofthings.ibmcloud.com"; // server name
16 char publishTopic[] = "iot-2/cnd/rft/string"; // topic name and type of event perform
17 char topic[] = "iot-2/cnd/rft/string"; // cmd Represent type and command is to
18 char authMethod[] = "use-token-auth"; // authentication method
19 char token[] = TOKEN;
20 char clientId[] = "d:" ONG ":" 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   //leds on
41   pinMode(23, 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	{ "number": 81, "level": 45, "weight": 223 }	json	a fe

Items per page: 50 | 1-1 of 1 item

Device Type: abcd

Events

Event type name: eventbatch11

Schedule: 1 Every Minute

Payload

```

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

```

Upload a CSV file

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