

## SPRINT – 4

DATE	14 NOVEMBER 2022
TEAM ID	PNT2022TMID40268
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 "chseji" // 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, 883, 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 chseji.messaging.internetofthings.ibmcloud.com  
IBM subscribe to cmd OK

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

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Device Type: abcd

Event type name: eventbatch11

Schedule: 1 Every Minute

Payload:

```

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

```

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