## **Sprint 2**

Date	18 November 2022
Team ID	PNT2022TMID50056
Project Name	IOT based Smart waste management system in metropolitan cities
Story Points	15

Develop the python code to find the GPS location using Latitude and Longitude (random values) and send it to Node red using IBM Watson platform and view location of bins on map

#### **PYTHON CODE:**

```
import wiotp.sdk.device
import time
import random
myConfig = {
       "identity": {
               "orgId": " wjnzmz",
               "typeId": "Bin",
               "deviceId":"Bin_1"
       },
       "auth": {
               "token": "12345678"
       }
}
def myCommandCallback (cmd):
       print ("Message received from IBM IoT Platform: %s" % cmd.data['command'])
       m=cmd.data['command']
```

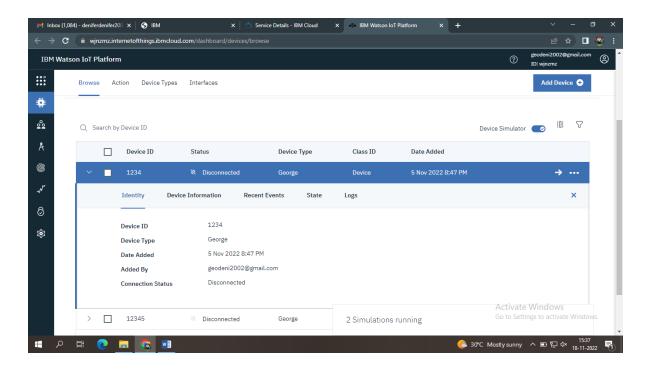
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#### **Output in PYTHON IDLE:**

```
*Python 3.7.9 Shell*
import wiotp.sdk.device
import time
import random
                                                                     Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 16:30:00) [MS( (AMD64)] on win32 
Type "help", "copyright", "credits" or "license()" for more info
myConfig = {
    "identity": {
                                                                                          = RESTART: C:\Users\Akash M\Desktop\bin gps.py ==
                   "orgId": "fzv53v",
"typeId": "Bin",
"deviceId":"Bin_1"
                                                                     2022-11-11 10:36:33,849 wiotp.sdk.device.client.DeviceClient | d successfully: d:fzv53v:Bin:Bin_1
                                                                     Published data Successfully: %s {'name': 'Bin1', 'lat': 13.09267'
          },
"auth": {
    "token": "1234567890"
                                                                      Published data Successfully: %s {'name': 'Bin1', 'lat': 13.09267'
                                                                     3141
def myCommandCallback (cmd):
         print ("Message received from IBM IoT Platform:
          m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig,
client.connect()
         client.publishEvent(eventId="status", msgFormat
         print ("Published data Successfully: %s", myDat
         myData={'name': 'Bin1', 'lat': 13.092677, 'lon
         pub (myData)
         time.sleep (3)
          client.commandCallback = myCommandCallback
client.disconnect ()
```

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### **IBM Watson IOT platform:**



#### **Node Red Platform:**

