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| Date | 5 November 2022 |
| Team ID | PNT2022TMID00928 |
| Project Name | Smart waste management system for metropolitan cities |
| Story Points | 15 |

**Sprint 2**

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": "fzv53v",

"typeId": "Bin",

"deviceId":"Bin\_1"

},

"auth": {

"token": "1234567890"

}

}

def myCommandCallback (cmd):

print ("Message received from IBM IoT Platform: %s" % cmd.data['command'])

m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)

client.connect()

def pub (data):

client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)

print ("Published data Successfully: %s", myData)

while True:

myData={'name': 'Bin1', 'lat': 13.092677, 'lon': 80.188314}

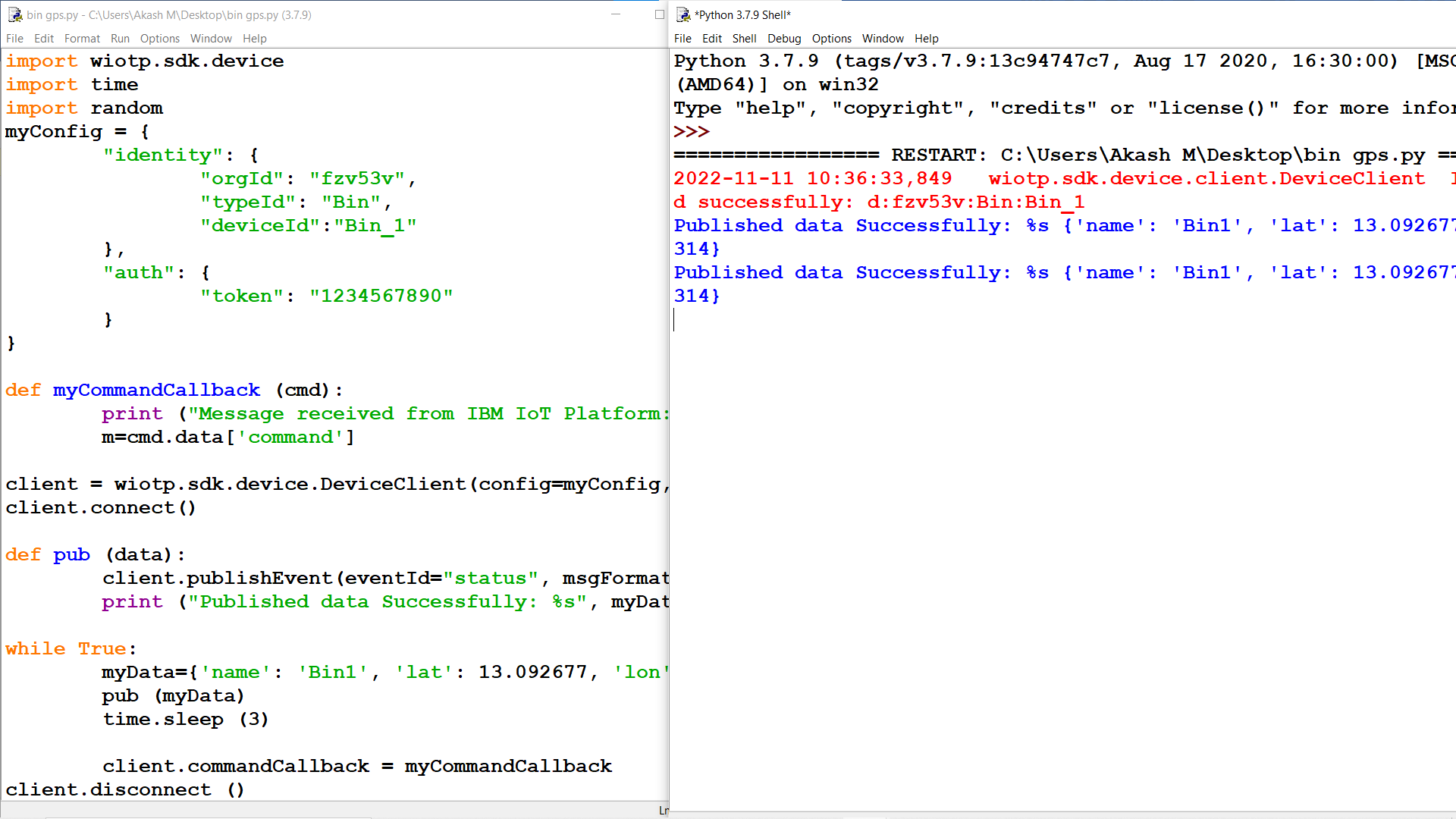
pub (myData)

time.sleep (3)

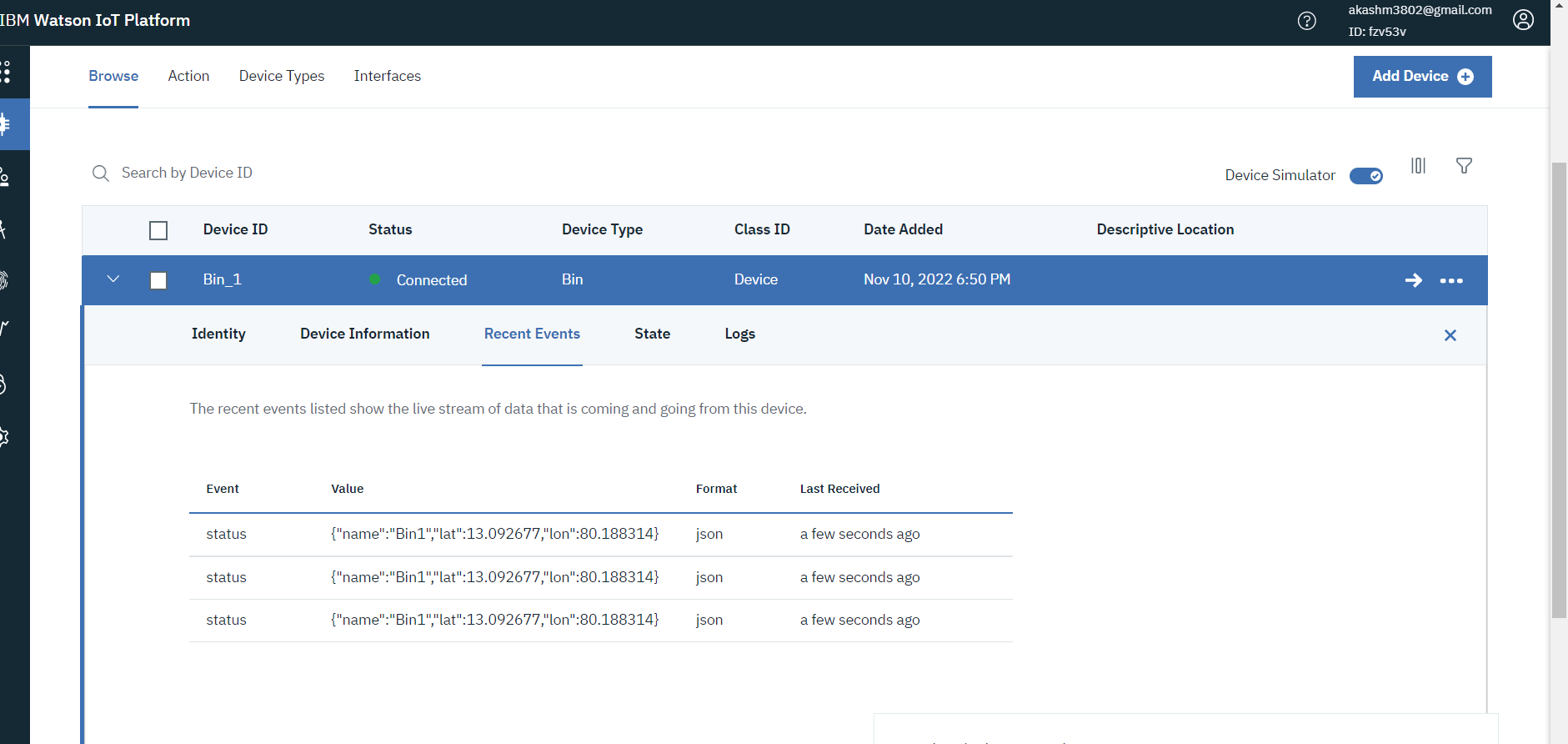
client.commandCallback = myCommandCallback

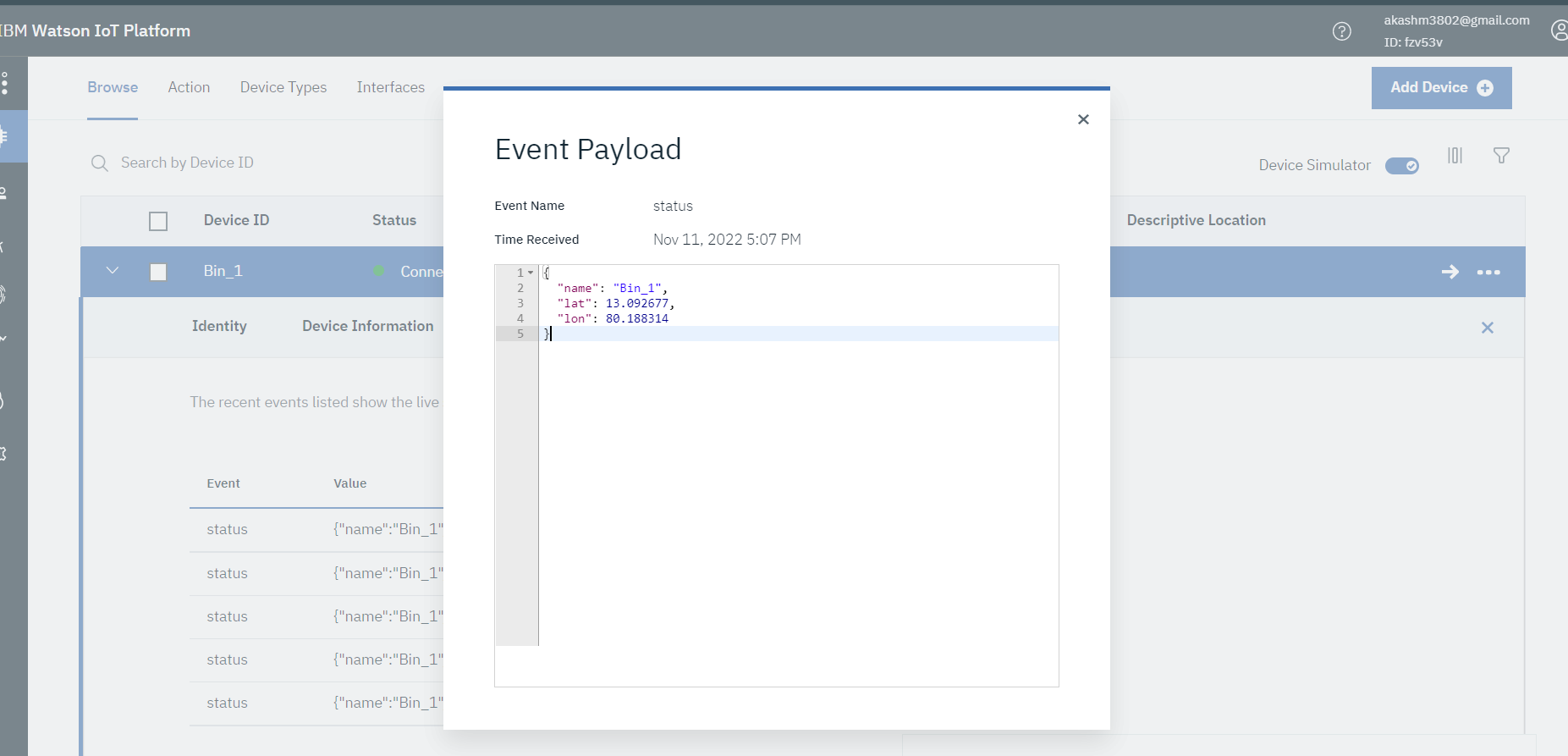
client.disconnect ()

**Output in python IDLE :**

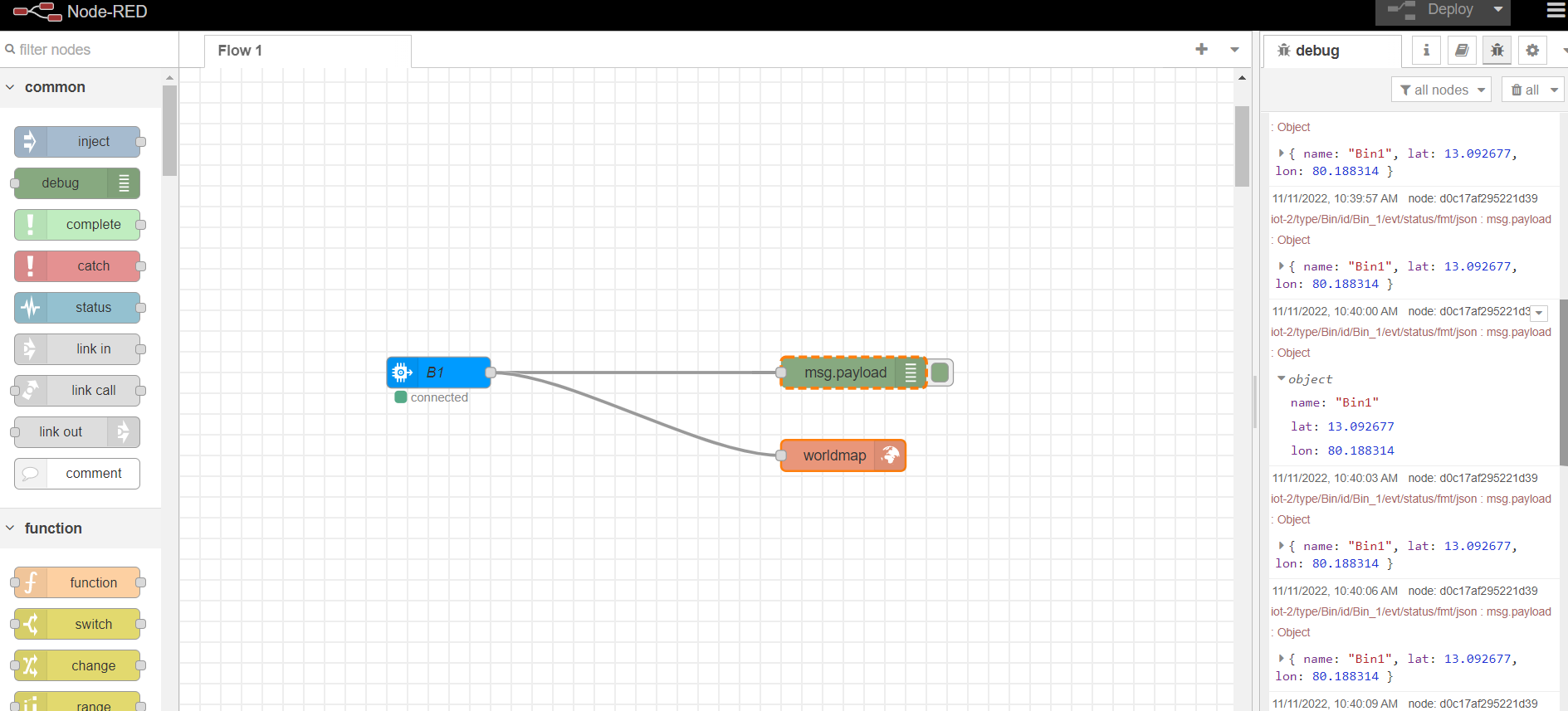


**IBM Watson IOT platform :**





**Node Red Platform :**



**Location of Trash Bins Shown in World Map :**

