# SPRINT - 2

Date	17 November 2022
Team ID	PNT2022TMID51107
<b>Project Name</b>	Smart Waste Management System for 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": "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)

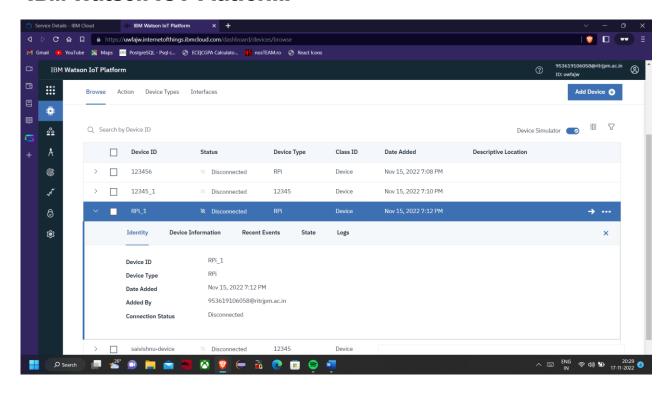
        client.commandCallback =

myCommandCallback client.disconnect ()
```

# **OUTPUT:**

```
File Edit Shell Debug Options Window Help
Python 3.7.9 (tagss/v3.7.9:13c94747c7, Aug 17 2020, 16:30:00) [MSC
import wiotp.sdk.device
                                                                   Type "help", "copyright", "credits" or "license()" for more info
import time
   port random
myConfig = {
    "identity": {
                                                                                      == RESTART: C:\Users\Akash M\Desktop\bin gps.py ==
                   "orgId": "fzv53v",
"typeId": "Bin",
                                                                  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'
                   "deviceId": "Bin_1"
                                                                   314}
          "auth": {
                                                                   Published data Successfully: %s {'name': 'Bin1', 'lat': 13.09267'
                   "token": "1234567890"
                                                                   314}
def myCommandCallback (cmd):
         print ("Message received from IBM IoT Platform
          m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig,
client.connect()
def pub (data):
         client.publishEvent(eventId="status", msgFormat
         print ("Published data Successfully: %s", myDat
while True:
         myData={'name': 'Bin1', 'lat': 13.092677, 'lon
         pub (myData)
         time.sleep (3)
         client.commandCallback = myCommandCallback
client.disconnect ()
```

#### **IBM Watson IOT Platform:**



## **Node Red Platform:**

