

## PYTHON SCRIPT

Team ID	PNT2022TMID00928
Project Name	Smart waste management system for metropolitan cities

Python code to find the GPS location using Latitude and Longitude (random values)

### **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 ()
```

## IBM Watson IOT platform :

The screenshot displays the IBM Watson IoT Platform web interface. At the top, the header shows the platform name, a user profile for 'akashm3802@gmail.com' with ID 'fzv53v', and navigation tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is located below the header, and a 'Device Simulator' toggle is visible. The main content area shows a table of devices, with 'Bin\_1' selected. Below the device list, the 'Recent Events' tab is active, displaying a table of events.

Event	Value	Format	Last Received
status	{"name":"Bin1","lat":13.092677,"lon":80.188314}	json	a few seconds ago
status	{"name":"Bin1","lat":13.092677,"lon":80.188314}	json	a few seconds ago
status	{"name":"Bin1","lat":13.092677,"lon":80.188314}	json	a few seconds ago