| Date | 17 November 2022 |
|--------------|---|
| Team ID | PNT2022TMID34892 |
| 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

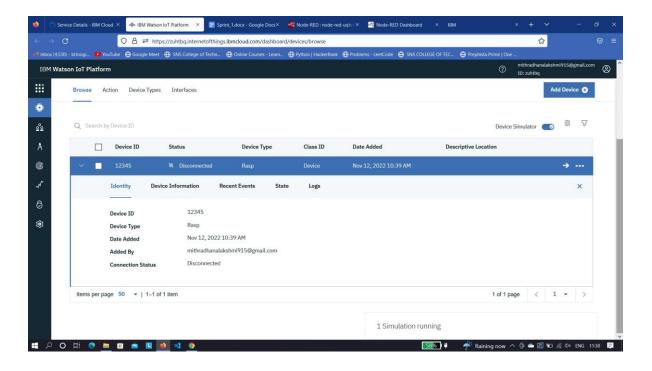
PYTHON CODE:

```
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']
```

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) [MSC
                                                                    (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'
                                                                    314}
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 ()
```

IBM Watson IOT platform:



Node Red Platform:

