## **SPRINT III**

Team ID	PNT2022TMID40462
Project Name	Smart Waste Management System for
	metropolitan cities

## **WORK DONE IN SPRINT 1:**

> Python code is developed and then tested whether the code is generating random sensor data or not

## **SCREENSHOT:**



## **CODE:**

```
#IBM Watson IOT Platform

#pip install wiotp-sdk

from geopy.geocoders import Nominatim
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "n7xtmx",
        "typeId": "ssr",
        "deviceId": "ssr_123"
    },
```

```
"auth": {
    "token": "12345678"
}
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()
while True:
  dist1=random.randint(0,100)
  loc = Nominatim(user_agent="GetLoc")
  getLoc1 = loc.geocode("madurai")
  lat=getLoc1.latitude
  log=getLoc1.longitude
  f="alert"
  if dist1>=80:
    a=print('The bin1 level is high')
    type(a)
    myData={'name':f,'Distance':dist1,'latitude':lat,'longitude':log}
    a=print('The bin1 level is low')
    type(a)
    myData={'Distance':dist1,'latitude':lat,'longitude':log}
  client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
  print("Published data Successfully: %s", myData)
  client.command Callback = my Command Callback \\
  time.sleep(10)
client.disconnect()
```