SPRINT - 3

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| Date | 16 NOV 2022 |
| Team ID | PNT2022TMID19565 |
| Project Name | Smart Waste Management |
| System for Metropolitan Cities |

# 1, Simulate python code in Python IDE software to transmit data to IBM Watson IOT platform

**Python code:**

# smartbin.py:

import wiotp.sdk.device import time

import random myConfig = { "identity": { "orgId": "mldk59",

"typeId": "pythoncode", "deviceId":"252525"

},

"auth": {

"token": "QZqODYo6U\*Q6b+IpuC"

} }

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:

latitude=random.uniform(27.2046,125.25) longitude=random.uniform(77.4977,100.1526) binlevel=random.randint(10,100)

binweight = random.randint(50,1500) if binweight>=1000 and binlevel>80:

myData={'latitude':latitude, 'longitude':longitude,'binlevel':binlevel, 'binweight':binweight}

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

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

print("BIN IS FULL..TIME TO EMPTY IT!!!!\n",myData)

client.commandCallback = myCommandCallback time.sleep(2)

else :

print("BIN IS IN NORMAL LEVEL...")

time.sleep(2) client.disconnect()

# Python IDE output:

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