**PUBLISH DATA TO THE IBM CLOUD**

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| TEAM ID | PNT2022TMID50747 |
| PROJECT | Smart Waste Management System For Metropolitan Cities |

**PYTHON CODE**

#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = {

"identity": {

"orgId": "yy5t0v",

"typeId": "lmnopq",

"deviceId":"234567"

},

"auth": {

"token": "87654321"

}

}

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)

if binlevel >= 90:

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

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

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

print("!!!!!!!!!BIN IS FULL!!!!!!!!!! ",myData)

client.commandCallback = myCommandCallback

time.sleep(2)

else :

print("BIN IS IN NORMAL LEVEL")

time.sleep(2)

client.disconnect()





