

PUBLISH DATA TO THE IBM CLOUD

Date	7 November 2022
Team ID	PNT2022TMID42272
Project Name	SMART WASTE MANAGEMENT SYSTEM
Maximum Marks	2 Marks

PYTHON CODE:

```
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "zpypic",
        "typeId": "ESP-32",
        "deviceId": "DHT-22"
    },
    "auth": {
        "token": "Hari@321"
    }
}

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()

```

```

code.py - H:/IBM/code.py (3.9.6)
File Edit Format Run Options Window Help
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import time
import random
myConfig = {
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        "orgId": "zypypic",
        "typeId": "ESP-32",
        "deviceId": "DHT-22"
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def myCommandCallback(cmd):
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    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)

```

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11-11-2022

```
"IDLE Shell 3.9.6"
File Edit Shell Debug Options Window Help
BIN IS FULL!!!! ('latitude': 50.417367229100236, 'longitude': 92.42661107172457, 'binlevel': 90)
BIN IS FULL!!!! ('latitude': 110.94652386436177, 'longitude': 86.29848240869121, 'binlevel': 91)
BIN IS FULL!!!! ('latitude': 115.23442076583503, 'longitude': 79.16099012663653, 'binlevel': 100)
BIN IS FULL!!!! ('latitude': 83.26668864576436, 'longitude': 94.65541634422857, 'binlevel': 91)
BIN IS FULL!!!! ('latitude': 111.14716895558648, 'longitude': 89.70475268229542, 'binlevel': 94)
BIN IS FULL!!!! ('latitude': 33.27866219580153, 'longitude': 97.04537127419314, 'binlevel': 90)
BIN IS FULL!!!! ('latitude': 117.33664293008263, 'longitude': 82.04727318722325, 'binlevel': 94)
BIN IS FULL!!!! ('latitude': 99.18865382440062, 'longitude': 92.19321559836055, 'binlevel': 95)
BIN IS FULL!!!! ('latitude': 45.24473644493818, 'longitude': 85.79247273818424, 'binlevel': 92)
BIN IS FULL!!!! ('latitude': 100.49329100712502, 'longitude': 89.40596472020152, 'binlevel': 96)
BIN IS FULL!!!! ('latitude': 68.35605301687914, 'longitude': 81.54754286296783, 'binlevel': 93)
BIN IS FULL!!!! ('latitude': 89.36054081947665, 'longitude': 87.55943521292751, 'binlevel': 91)
BIN IS FULL!!!! ('latitude': 83.98850090906507, 'longitude': 85.25692418855301, 'binlevel': 98)
BIN IS FULL!!!! ('latitude': 52.22995386951392, 'longitude': 81.31394305222177, 'binlevel': 93)
BIN IS FULL!!!! ('latitude': 117.18856956488858, 'longitude': 81.9321852254139, 'binlevel': 99)
BIN IS FULL!!!! ('latitude': 27.678322422049806, 'longitude': 95.84458751767036, 'binlevel': 98)
BIN IS FULL!!!! ('latitude': 83.92122204779164, 'longitude': 85.23474371033754, 'binlevel': 96)
BIN IS FULL!!!! ('latitude': 57.32134739148621, 'longitude': 86.33217109143538, 'binlevel': 96)
BIN IS FULL!!!! ('latitude': 77.54269383315109, 'longitude': 100.05349073151915, 'binlevel': 100)
BIN IS FULL!!!! ('latitude': 98.84033661327992, 'longitude': 78.48877100907423, 'binlevel': 92)
BIN IS FULL!!!! ('latitude': 120.25205316521799, 'longitude': 88.16838372709773, 'binlevel': 96)
BIN IS FULL!!!! ('latitude': 45.44793542202464, 'longitude': 100.0072005087186, 'binlevel': 90)
BIN IS FULL!!!! ('latitude': 119.34511040400605, 'longitude': 93.39953919975277, 'binlevel': 94)
BIN IS FULL!!!! ('latitude': 81.84719588898722, 'longitude': 92.66826117254094, 'binlevel': 99)
BIN IS FULL!!!! ('latitude': 116.96396019804864, 'longitude': 97.43184730006962, 'binlevel': 90)
BIN IS FULL!!!! ('latitude': 113.67422957550863, 'longitude': 84.49014578415142, 'binlevel': 97)
BIN IS FULL!!!! ('latitude': 30.46029231614091, 'longitude': 94.88506759069723, 'binlevel': 97)
BIN IS FULL!!!! ('latitude': 40.22574388604542, 'longitude': 86.73373255946319, 'binlevel': 94)
BIN IS FULL!!!!
```

IBM Watson IoT Platform

710019106016@smartinternz.com
ID: zpypic

Browse Action Device Types Interfaces

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	["latitude":117.48468869356775,"longitude":7...	json	a few seconds ago
status	["latitude":39.87540469626995,"longitude":89....	json	a few seconds ago
status	["latitude":117.29510664716592,"longitude":9...	json	a few seconds ago
status	["latitude":89.68874241236502,"longitude":79....	json	a few seconds ago
status	["latitude":88.21181665892038,"longitude":86....	json	a few seconds ago

1 Simulation running