

# PROJECT DEVELOPMENT PHASE

## SPRINT 4

### PYTHON SCRIPT FOR MEDICINE REMAINDER

TEAM ID	PNT2022TMID39429
PROJECT TITLE	PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT

#### STEP 1:

##### PYTHON CODE FOR MEDICINE REMAINDER

```
import json

import wiotp.sdk.device

import time

import random

myConfig = {

    "identity": {

        "orgId": "tboyb4",

        "typeId": "medicineremainder",

        "deviceId": "19171603"

    },

    "auth": {

        "token": "12345678"

    }

}

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
```

```

client.connect()

for i in range(0,20):

    tablet=["Amlodipine
Besylate","Azithromycin","Metformin","Amoxicillin","Cetirizine"]

    medicinetime=[12.00,1.00,2.00,3.00,5.00,18.00,20.00,7.00]

    name = "Rajammal"

    medicine=random.choice(tablet)

    medicinetime=random.choice(medicinetime)

    mydata = {'Patient Name': name, 'Medicine Name': medicine, 'Time':
medicinetime}

    client.publishEvent("IoTSensor", "json", data=mydata, qos=0,
onPublish=None)

    print("Data published to IBM IOT platform :", mydata)

    time.sleep(5)

    client.disconnect()

```

## STEP 2:

### PYTHON CODE IN PYTHON SHELL 3.7.0

```

medicatenvironment.py -> C:\Users\ELCOT\Documents\medicatenvironment.py (3.7.0)
File Edit Format Run Options Window Help
import paho.mqtt.client as mqtt
import random
import time
import sys
import json
myConfig = {
    "clientId": "1",
    "username": "pahoClient",
    "password": "password123456",
    "host": "192.168.1.100"
}
"{
    "Patient Name": "Rajammal",
    "Medicine Name": "Amlodipine Besylate",
    "Time": 12.00
}">
mydata = {
    'Patient Name': name, 'Medicine Name': medicine, 'Time': medicinetime}
client.publishEvent("IoTSensor", "json", data=mydata, qos=0, onPublish=None)
print("Data published to IBM IOT platform : ", mydata)
time.sleep(5)
client.disconnect()

```

## STEP 3:

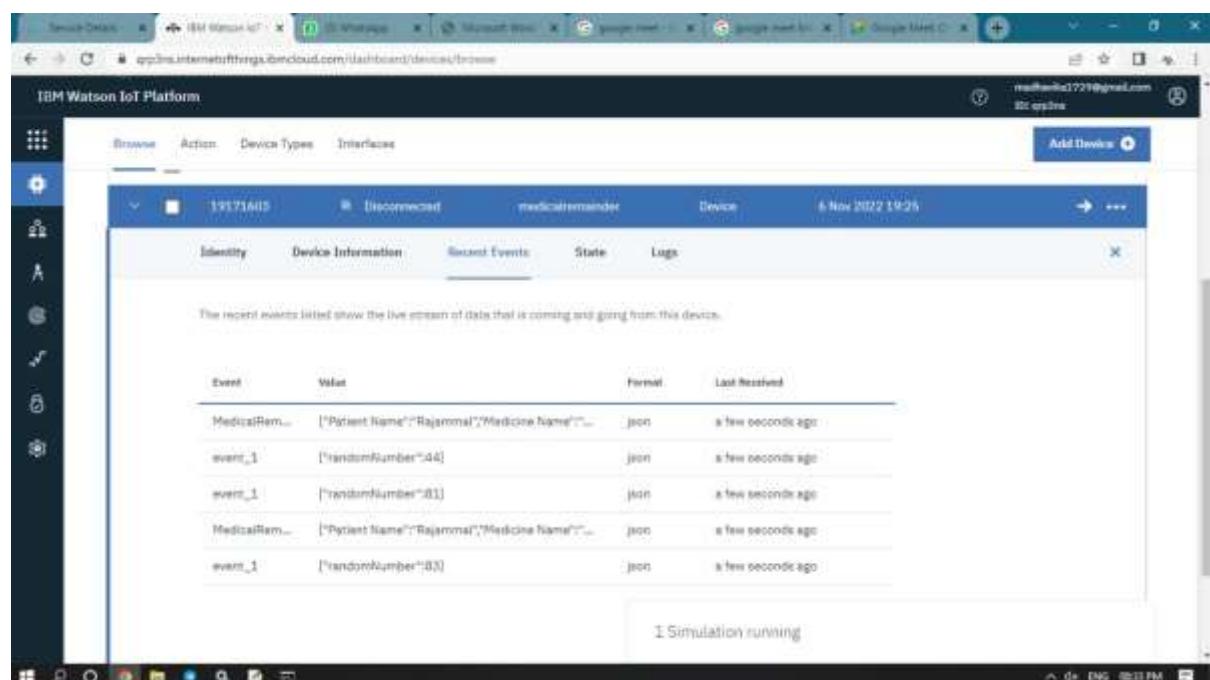
### OUTPUT FOR PYTHON CODE



```
Python 3.7.0 Shell
File Edit Shell Options Window Help
Python 3.7.0 (v3.7.0:bb0ef3afca, Jun 27 2018, 04:39:52) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART: C:/Users/ELCOT/Downloads/medicalreminder.py =====
Data published successfully! https://us-south.medicalreminder:9076/iotData published to IBM IoT platform
Data published to IBM IoT platform: {"Patient Name": "Rajaramal", "Medicine Name": "Cetirizine", "Time": 1.0}
Data published to IBM IoT platform: {"Patient Name": "Rajaramal", "Medicine Name": "Azithromycin", "Time": 22.0}
Data published to IBM IoT platform: {"Patient Name": "Rajaramal", "Medicine Name": "Acetaminophen", "Time": 10.0}
Data published to IBM IoT platform: {"Patient Name": "Rajaramal", "Medicine Name": "Acetaminophen", "Time": 7.0}
Data published to IBM IoT platform: {"Patient Name": "Rajaramal", "Medicine Name": "Cetirizine", "Time": 3.0}
Data published to IBM IoT platform: {"Patient Name": "Rajaramal", "Medicine Name": "Cetirizine", "Time": 20.0}
Data published to IBM IoT platform: {"Patient Name": "Rajaramal", "Medicine Name": "Amoxicillin", "Time": 7.0}
Data published to IBM IoT platform: {"Patient Name": "Rajaramal", "Medicine Name": "Cetirizine", "Time": 8.0}
Data published to IBM IoT platform: {"Patient Name": "Rajaramal", "Medicine Name": "Azithromycin", "Time": 12.0}
```

## STEP 4:

### PYTHON CODE CONNECTED TO IBM WATSON IOT PLATFORM



Event	Value	Format	Last Received
MedicalRem...	{"Patient Name": "Rajaramal", "Medicine Name": "...", "Time": ...}	json	a few seconds ago
event_1	{"randomNumber": 44}	json	a few seconds ago
event_1	{"randomNumber": 81}	json	a few seconds ago
MedicalRem...	{"Patient Name": "Rajaramal", "Medicine Name": "...", "Time": ...}	json	a few seconds ago
event_1	{"randomNumber": 83}	json	a few seconds ago

## OUTPUT IS DISPLAYED IN IBM PLATFORM

The screenshot shows the IBM Watson IoT Platform dashboard. At the top, there are tabs for 'Browse', 'Action', 'Device Types', and 'Interface'. A blue header bar displays the device ID '39571605', its state as 'Disconnected', the name 'medicalreminder', the device type 'Device', and the last update time '6 Nov 2022 19:26'. On the left, a sidebar contains icons for 'Devices' (22), 'Actions', 'Logs', and 'Metrics'. The main area is titled 'Recent Events' and shows a table of data. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. The data rows are as follows:

Event	Value	Format	Last Received
event_1	[{"randomNumber":63}]	json	a few seconds ago
MedicalRem...	[{"Patient Name": "Rajammal", "Medicine Name": "..."}]	json	a few seconds ago
event_1	[{"randomNumber":35}]	json	a few seconds ago
event_1	[{"randomNumber":13}]	json	a few seconds ago
MedicalRem...	[{"Patient Name": "Rajammal", "Medicine Name": "..."}]	json	a few seconds ago

A message at the bottom center says 'Simulation running'.