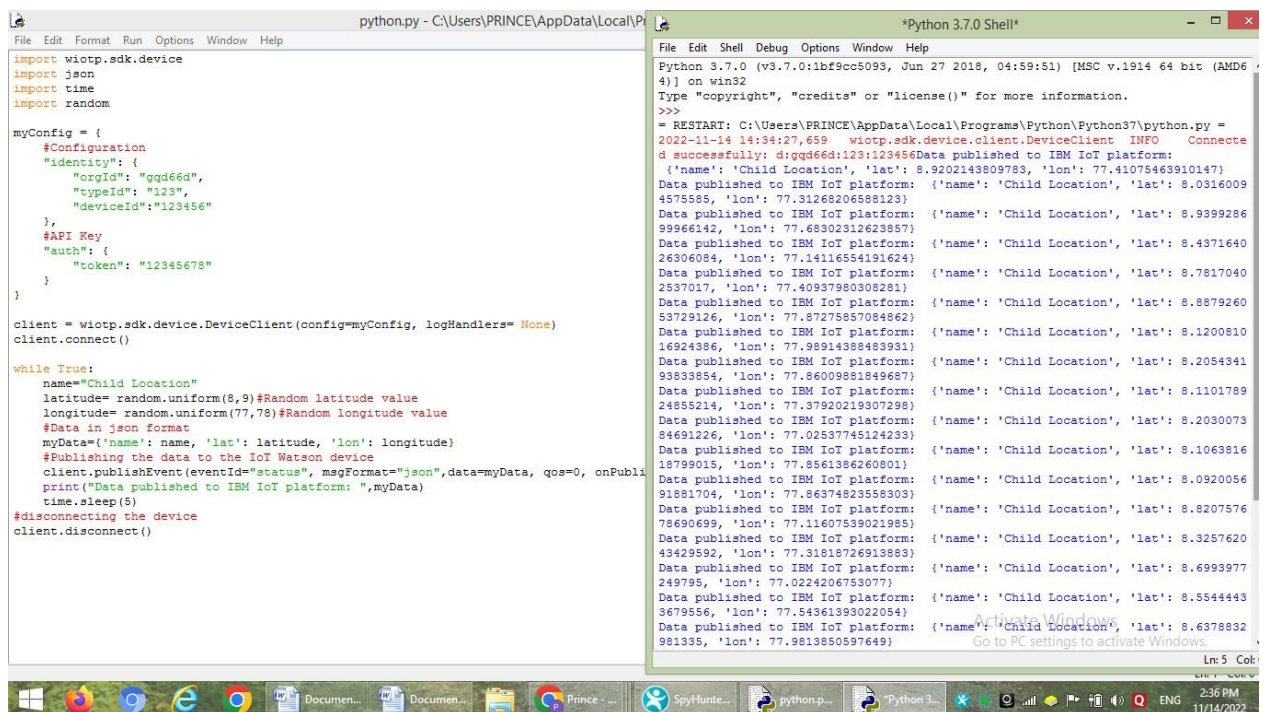


Safety Gadget for Child Safety Monitoring and Notification

Project Development –Delivery of Sprint 3

Team ID	PNT2022TMID52225
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Transferring values from Python Code:



The image shows a screenshot of a Windows desktop with two windows open. The left window is a text editor showing a Python script named `python.py`. The script imports `wiotp.sdk.device`, `json`, `time`, and `random`. It defines a `myConfig` dictionary with fields for `orgId`, `typeId`, `deviceId`, `API Key`, and `token`. The script then creates a `DeviceClient` object, connects to the IoT platform, and enters a `while True` loop. In the loop, it generates random latitude and longitude values, formats them into a JSON object, and publishes it to the IoT platform using `publishEvent`. It also includes a `disconnect` section at the end. The right window is a `*Python 3.7.0 Shell*` window showing the output of the script. It displays the connection status, the data being published (name, latitude, longitude), and the time taken for each publication. The output shows multiple successful publications of data to the IBM IoT platform.

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

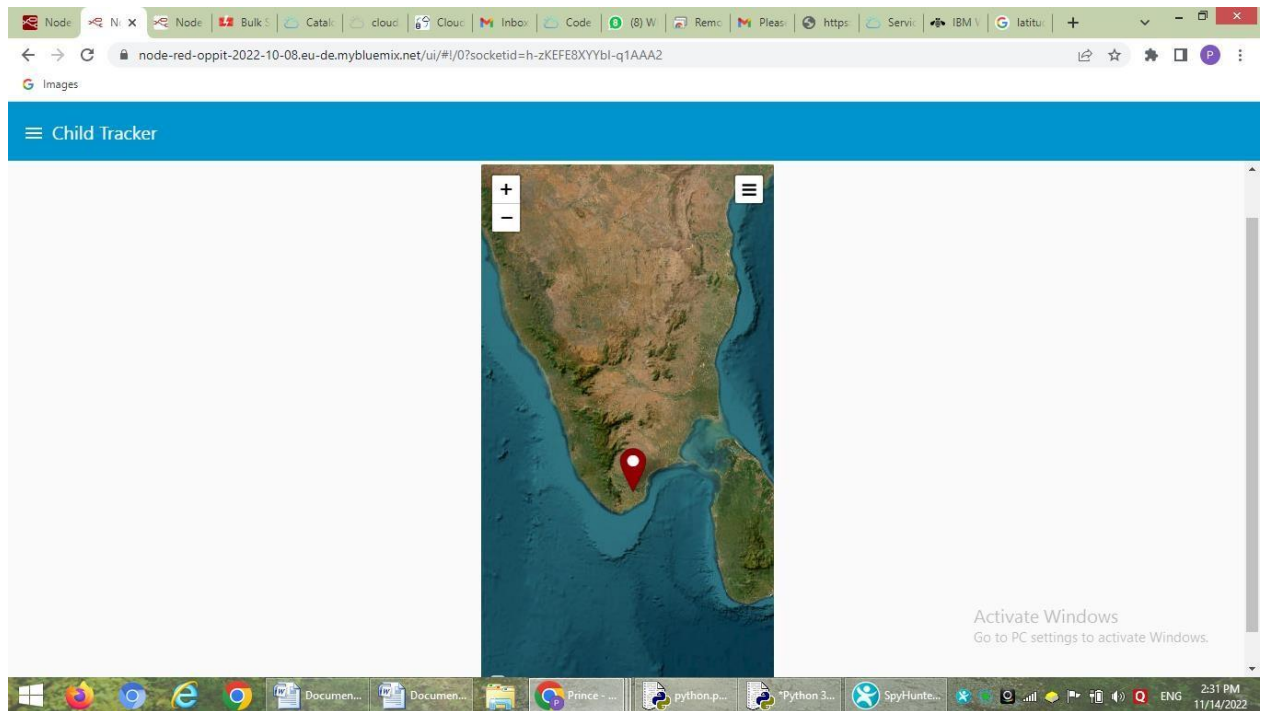
myConfig = {
    #Configuration
    "identity": {
        "orgId": "qgd66d",
        "typeId": "123",
        "deviceId": "123456"
    },
    #API Key
    "auth": {
        "token": "12345678"
    }
}

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

while True:
    name="Child Location"
    latitude= random.uniform(8,9)#Random latitude value
    longitude= random.uniform(77,78)#Random longitude value
    #Data in json format
    myData={'name': name, 'lat': latitude, 'lon': longitude}
    #Publishing the data to the IoT Watson device
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPubli
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)
#disconnecting the device
client.disconnect()
```

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\PRINCE\AppData\Local\Programs\Python\Python37\python.py =
2022-11-14 14:34:27,659 wiotp.sdk.device.client.DeviceClient INFO Connecte
d successfully: dggd66d:123:123456Data published to IBM IoT platform:
{'name': 'Child Location', 'lat': 8.9202143809783, 'lon': 77.41075463910147}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.0316009
4575585, 'lon': 77.31268206588123}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.9399286
99966142, 'lon': 77.68302312623857}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.4371640
26306084, 'lon': 77.14116554191624}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.7817040
2537017, 'lon': 77.40937980308281}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.8879260
53729126, 'lon': 77.87275857084862}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.1200810
16924386, 'lon': 77.9891498848931}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.2054341
93833854, 'lon': 77.86009881849687}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.1101789
24855214, 'lon': 77.37920219307298}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.2030073
84691226, 'lon': 77.02537745124233}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.1063816
18799015, 'lon': 77.8561386260801}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.0920056
91881704, 'lon': 77.86374823558303}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.8207576
78690699, 'lon': 77.11607539021985}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.3257620
43429592, 'lon': 77.31818726913883}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.6993977
249795, 'lon': 77.0224206753077}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.5544443
3679556, 'lon': 77.54361393022054}
Data published to IBM IoT platform: {'name': 'Child Location', 'lat': 8.6378832
981335, 'lon': 77.9813850597649}
```

Node-Red Dashboard:



Cloudant DB:

Databases

Database name

Create Database

{ } JSON

Monitoring

Databases

Replication

Active Tasks

Account

Support

Documentation

IBM Cloudant

Log Out IBMId-664003Z57Y

Name	Size	# of Docs	Partitioned	Actions
childtracking_1	38 bytes	1	No	
noderedoppit20221008	49.4 KB	4	No	
sample	14 bytes	1	No	

Showing 1-3 of 3 databases. Databases per page 20 1

Activate Windows
Go to PC settings to activate Windows.