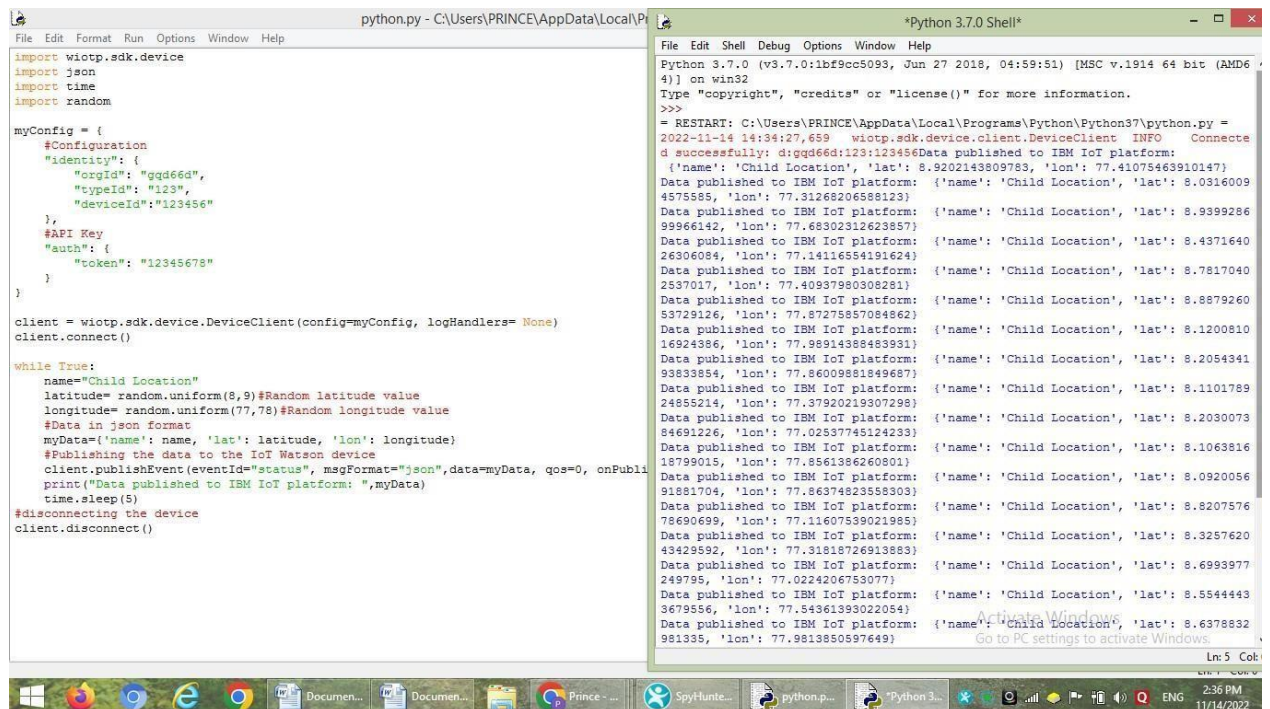


# Safety Gadget for Child Safety Monitoring and Notification

## Project Development –Delivery of Sprint 3

Team ID:	PNT2022TMID00858
Project Name:	IOT-BASED CHILD MONITORING SYSTEM SURVEY USING THE RASPBERRY PI

## 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 titled 'python.py - C:\Users\PRINCE\AppData\Local\Programs\Python\Python37\python.py'. It contains a Python script that uses the 'wiotp.sdk.device' module to connect to an IBM IoT platform and publish location data. The script defines a configuration object, creates a device client, and enters a loop where it generates random latitude and longitude values, formats them as JSON, and publishes them to the IoT platform. The right window is a 'Python 3.7.0 Shell' window showing the output of the script. It displays a series of messages indicating successful connections and data publications, including timestamps, device IDs, and the coordinates of the simulated child location.

```
python.py - C:\Users\PRINCE\AppData\Local\Programs\Python\Python37\python.py
File Edit Format Run Options Window Help
import wiotp.sdk.device
import json
import time
import random

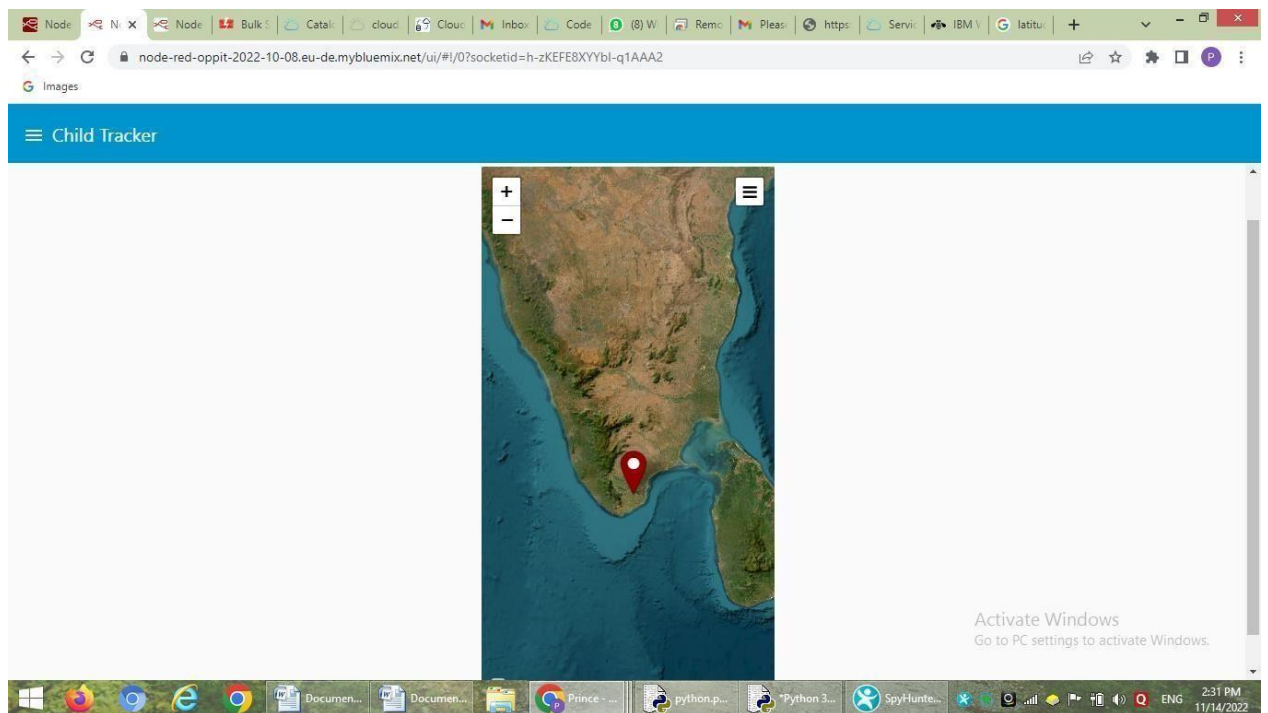
myConfig = {
    #Configuration
    "identity": {
        "orgId": "gqdd66d",
        "typeId": "123",
        "deviceId": "123456"
    },
    #API Key
    "auth": {
        "token": "12345678"
    }
}

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, onPubl
    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: d:gqdd66d: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': 8.93999286
99966142, 'lon': 77.68302812623857}
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': 77.98914388483931}
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': 77.8637482358303}
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}
Go to PC settings to activate Windows
Ln: 5 Col: 1
```

## Node-Red Dashboard:



## Cloudant DB:

The screenshot displays the IBM Cloudant dashboard. On the left is a navigation sidebar with links for Monitoring, Databases, Replication, Active Tasks, Account, Support, and Documentation. The main content area is titled "Databases" and shows a table of "Your Databases".

Name	Size	# of Docs	Partitioned	Actions
childtracking_1	38 bytes	1	No	[Icons for actions]
noderedoppit20221008	49.4 KB	4	No	[Icons for actions]
sample	14 bytes	1	No	[Icons for actions]

At the bottom of the dashboard, it indicates "Showing 1-3 of 3 databases." and "Databases per page 20". The IBM Cloudant logo and a "Log Out" button are visible in the bottom left corner.

