

## SPRINT 4

DATE	17 November 2022
TEAM ID	PNT2022TMID01023
PROJECT NAME	<b>IoT Based Safety Gadget for Child Safety Monitoring and Notifications</b>
MAXIMUM MARKS	8 Marks

### PYTHON CODE:

```
import time

import sys

import ibmiotf.application

import ibmiotf.device


#Provide your IBM Watson Device Credentials

organization = "1tjvme" # repalce it with organization ID

deviceType ="abcd" #replace it with device type

deviceId = "1002" #repalce with device id

authMethod = "token"

authToken = "1234567890"#repalce with token


def myCommandCallback(cmd):

    print("Command received: %s" % cmd.data)

    if cmd.data['command']=='lighton':

        print("LIGHT ON")

    elif cmd.data['command'] == 'lightoff':
```

```
print("LIGHT OFF")
```

```
try:
```

```
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId,  
"auth-method": authMethod, "auth-token": authToken}
```

```
    deviceCli = ibmiotf.device.Client(deviceOptions)
```

```
    #.....
```

```
except Exception as e:
```

```
    print("Caught exception connecting device: %s" % str(e))
```

```
    sys.exit()
```

```
deviceCli.connect()
```

```
while True:
```

```
    L1=19.1712;
```

```
    L2=83.4163;
```

```
    #Send Latitude & Longitude to IBM Watson
```

```
    data = {'d':{'lat' : L1, 'lon': L2}}
```

```
    #print data
```

```
    def myOnPublishCallback():
```

```
        print ("Published Latitude = %s C" % L1, "Longitude = %s %" % L2, "to  
IBM Watson")
```

```
    success = deviceCli.publishEvent("event", "json", data, qos=0,  
on_publish=myOnPublishCallback)
```

```
    if not success:
```

```
        print("Not connected to IoT")
```

```
    time.sleep(1)
```

```
deviceCli.commandCallback = myCommandCallback
```

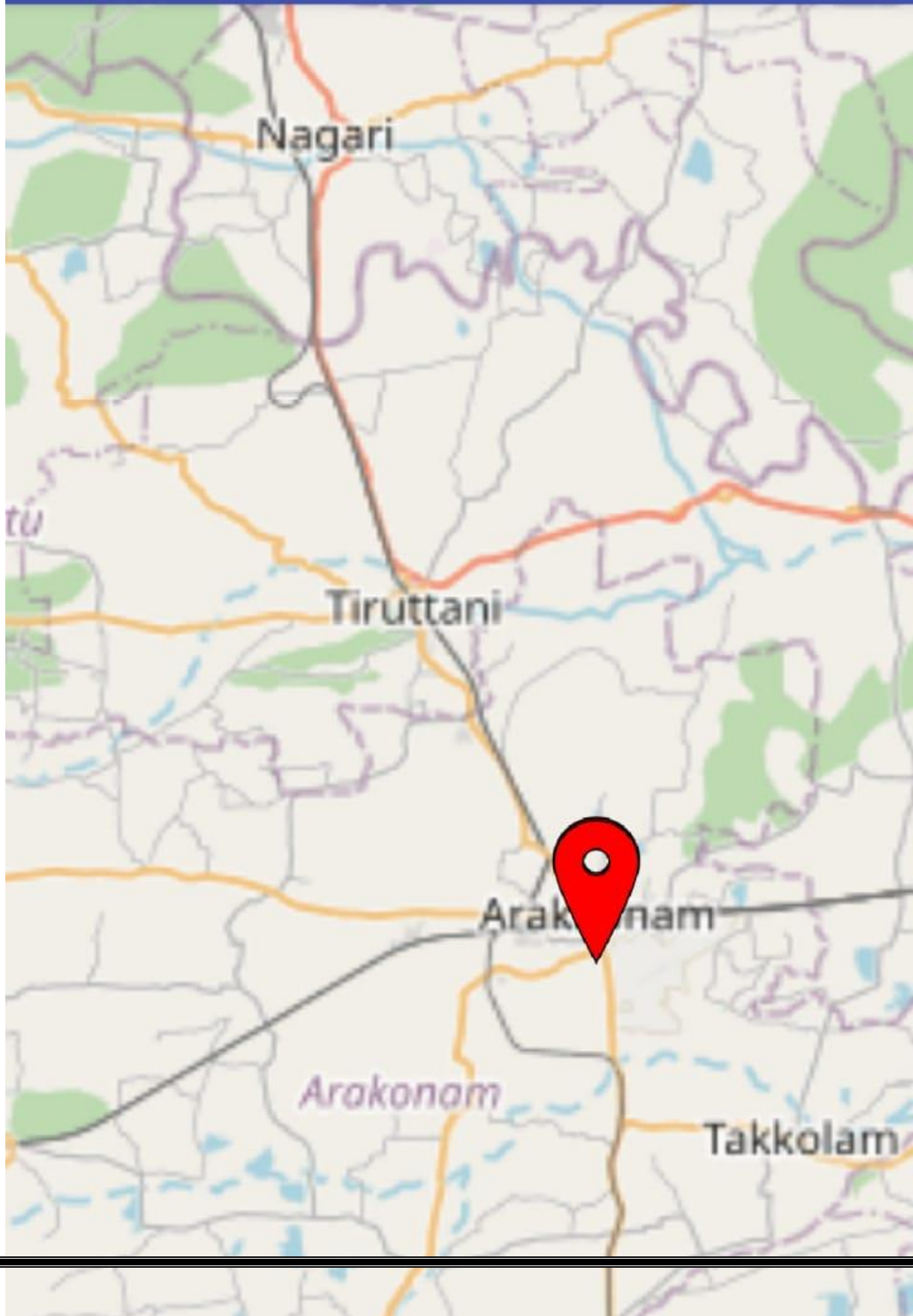
```
# Disconnect the device and application from the cloud
```

```
deviceCli.disconnect()
```

22:54

6.00 KB/S VoLTE 73%

# Child Tracker



childtracker.py - ISPS-INT-2453-Child-Tracker-with-Emergency-Notifier-master - Visual Studio Code

EXPLORER

- ISPS-INT-2453-Child-Tracker-with-E...
- child\_tracker.json
- child\_tracker.mp4
- childtracker.aia
- childtracker.apk
- childtracker.py
- ISPS-INT-2453-Child Tracker with E...
- d\_tijyme\_abcd\_1002.log

childtracker.py

```
1 import time
2 import sys
3 import ibmiotf.application
4 import ibmiotf.device
5
6 #Provide your IBM Watson Device Credentials
7 organization = "itjyme" # replace it with organization ID
8 devicetype = "abcd" #replace it with device type
9 deviceId = "1002" #replace with device id
10 authMethod = "token"
11 authToken = "1234567890" #replace with token
12
13 def myCommandCallback(cmd):
14     print("Command received: %s" % cmd.data)
15     if cmd.data['command'] == 'lighton':
16         print("LIGHT ON")
17     elif cmd.data['command'] == 'lightoff':
18         print("LIGHT OFF")
19
20 try:
21     deviceOptions = {"org": organization, "type": devicetype, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
22     deviceCli = ibmiotf.device.Client(deviceOptions)
23     #.....
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

2022-11-17 20:02:00.506 ibmiotf.device.Client INFO connected successfully: d:itjyme:abcd:1002

Published Latitude = 19.1712 C Longitude = 83.4163 % to IBM Watson  
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Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.7.0 32-bit Go Live 20:02 17-11-2022

RMX2001

21:44

Child Tracker

Map showing location in Nagaland, India. A red pin is placed on the map.

EXPLORER

- ISPS-INT-2453-Child-Tracker-with-E...
- child\_tracker.json
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- childtracker.aia
- childtracker.apk
- childtracker.py
- ISPS-INT-2453-Child Tracker with E...
- d\_tijyme\_abcd\_1002.log

childtracker.py

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