SPRINT 4

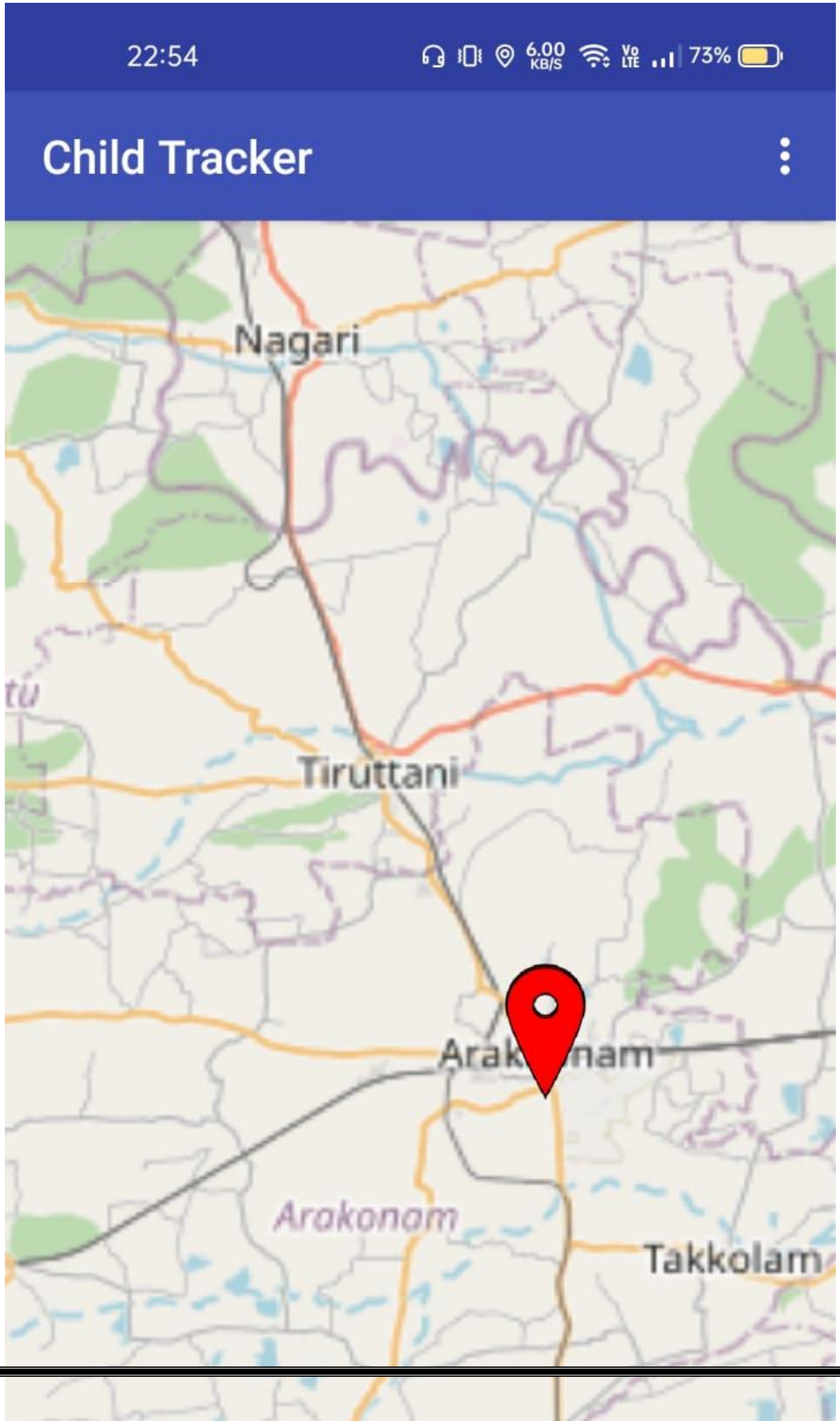
DATE	17 November 2022
TEAM ID	**PNT2022TMID01023**
PROJECT NAME	**IoT Based Safety Gadget for Child Safety Monitoring andNotifications**
MAXIMUM MARKS	8 Marks

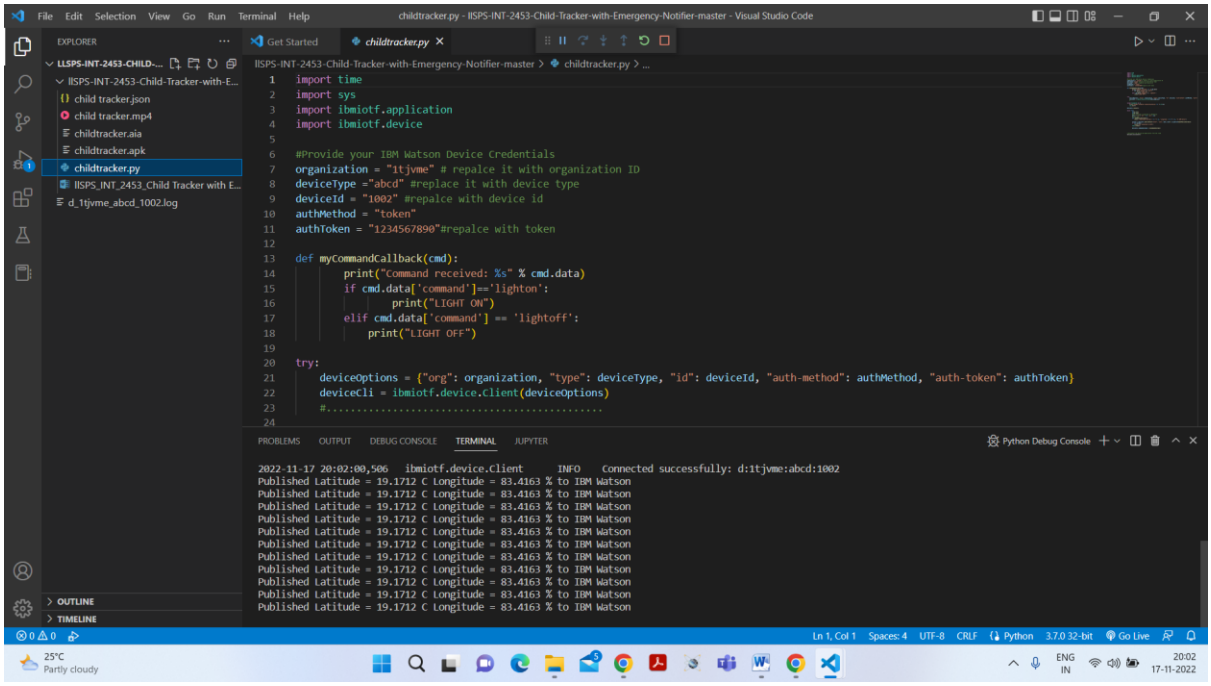
PYTHON CODE:

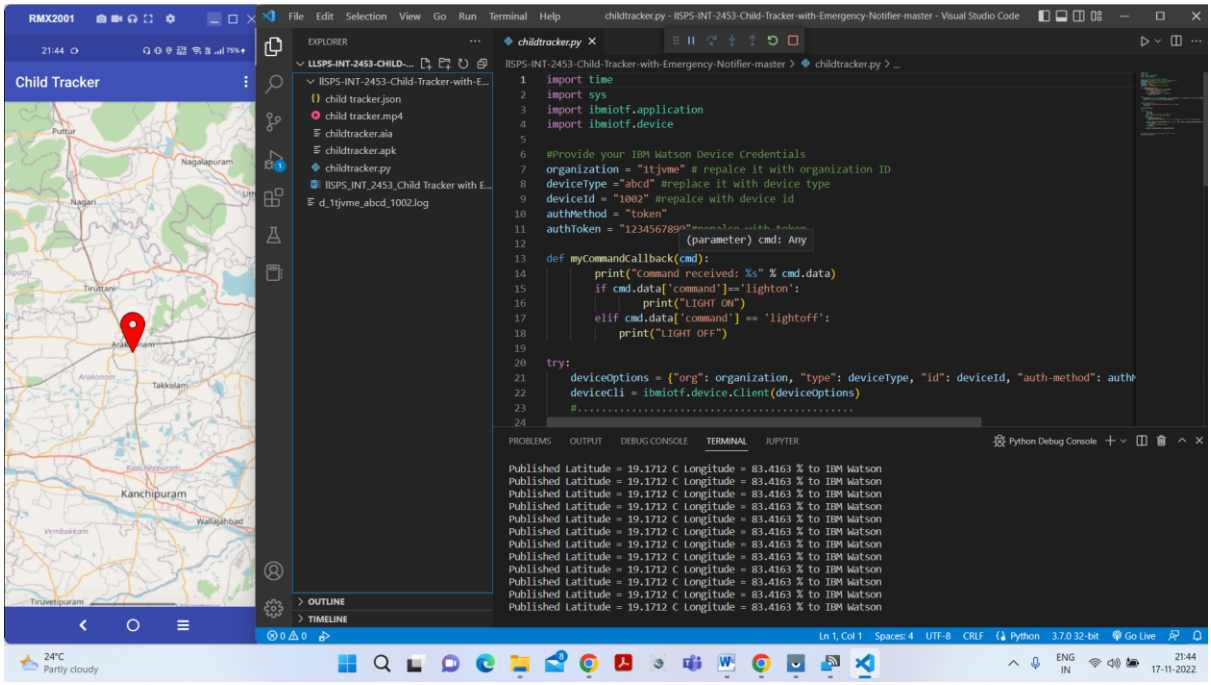
```
import time

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 IoTF")
        time.sleep(1)


        deviceCli.commandCallback = myCommandCallback



# Disconnect the device and application from the cloud
deviceCli.disconnect()
```


22:54
6.00 KB/S
73%
Child Tracker
Nagari
Tiruttani
Arakonam
Takkolam


childtracker.py - IISPS-INT-2453-Child-Tracker-with-Emergency-Notifier-master - Visual Studio 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)
#.....
2022-11-17 20:02:00,506 ibmiotf.device.Client INFO Connected successfully: d:1tjvme:abcd:1002
Published Latitude = 19.1712 C Longitude = 83.4163 % to IBM Watson


RMX2001
Child Tracker
childtracker.py - IISPS-INT-2453-Child-Tracker-with-Emergency-Notifier-master - Visual Studio Code
(parameter) cmd: Any
Published Latitude = 19.1712 C Longitude = 83.4163 % to IBM Watson