

SPRINT 1

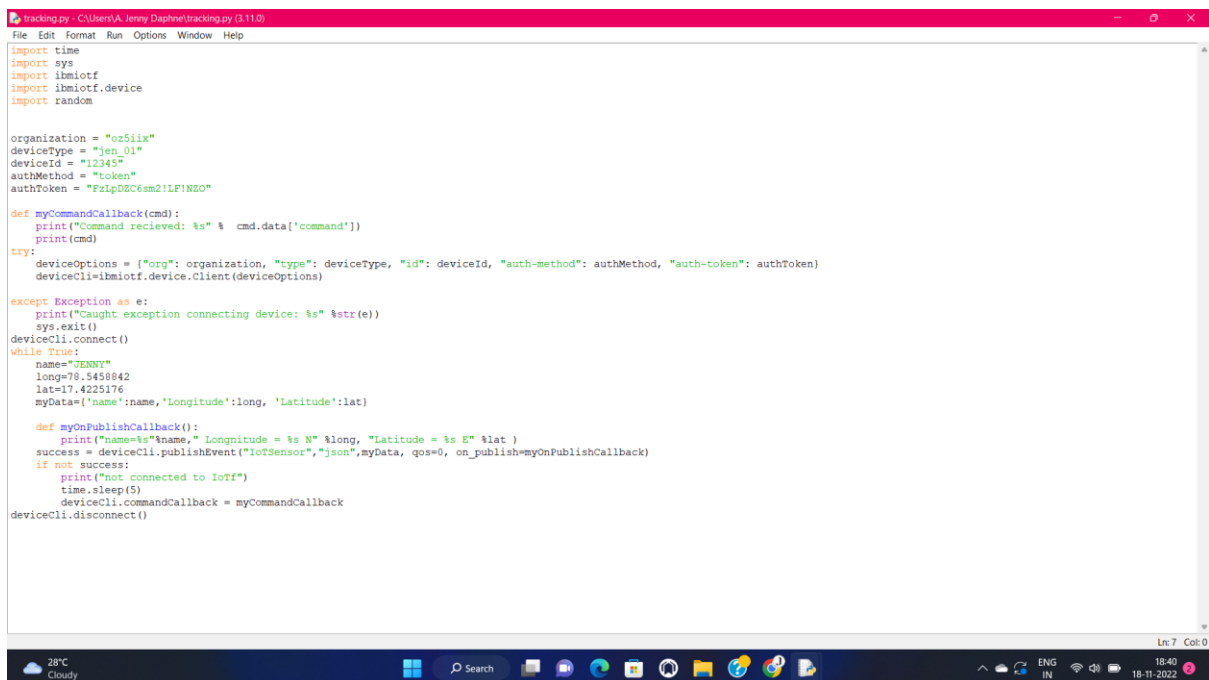
THE PYTHON SCRIPT

TEAM ID	PNT2022TMID34911
PROJECT NAME	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION.

AIM:

To write the python code and to connect the device to the IBM IOT Watson platform.

PYTHON CODE:



```
tracking.py - C:\Users\A_Jenny Daphne\tracking.py (3:11:0)
File Edit Format Run Options Window Help

import time
import sys
import ibmiotf
import ibmiotf.device
import random

organization = "025iix"
deviceType = "jen_01"
deviceId = "12345"
authMethod = "token"
authToken = "FzlgDZC6sm2!!LF!N2O"

def myCommandCallback(cmd):
    print("Command recieved: %s" % cmd.data['command'])
    print(cmd)
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:
    name="JENNY"
    long=78.5458842
    lat=17.4225176
    myData={'name':name,'Longitude':long, 'Latitude':lat}

    def myOnPublishCallback():
        print("name=%s,name," Longitude = %s W" %long, "Latitude = %s E" %lat )
        success = deviceCli.publishEvent("IoTSensor","json",myData, qos=0, on_publish=myOnPublishCallback)
    if not success:
        print("not connected to IoTf")
        time.sleep(5)
    deviceCli.commandCallback = myCommandCallback
    deviceCli.disconnect()
```

OUTPUT EXECUTION:

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area is titled 'Recent Events' and shows a table of live data streams. The table has four columns: 'Event', 'Value', 'Format', and 'Last Received'. It lists five events, all from an 'IoT Sensor' with a JSON value containing name, longitude, and latitude information, received 'a few seconds ago'. The bottom of the dashboard shows a status bar with weather information (28°C Cloudy) and system icons.

Event	Value	Format	Last Received
IoT Sensor	{"name":"JENNY","Longitude":"78.5458842","Latit..."}	json	a few seconds ago
IoT Sensor	{"name":"JENNY","Longitude":"78.5458842","Latit..."}	json	a few seconds ago
IoT Sensor	{"name":"JENNY","Longitude":"78.5458842","Latit..."}	json	a few seconds ago
IoT Sensor	{"name":"JENNY","Longitude":"78.5458842","Latit..."}	json	a few seconds ago
IoT Sensor	{"name":"JENNY","Longitude":"78.5458842","Latit..."}	json	a few seconds ago

RESULT:

Thus the python code was executed successfully and the device was connected to IBM IOT Watson platform and the output was verified successfully.