Develop A Python Script

Date	17 November 2022
Team ID	PNT2022TMID48061
Project Name	Project -IoT Based Safety Gadget for Child Safety Monitoring and Notification

Develop a python code for publishing the location (latitude and longitude) data to the IBM IoT Platform.

PYTHON SCRIPT:

child chip.py - C:/Users/ELCOT/Desktop/child chip.py (3.11.0)

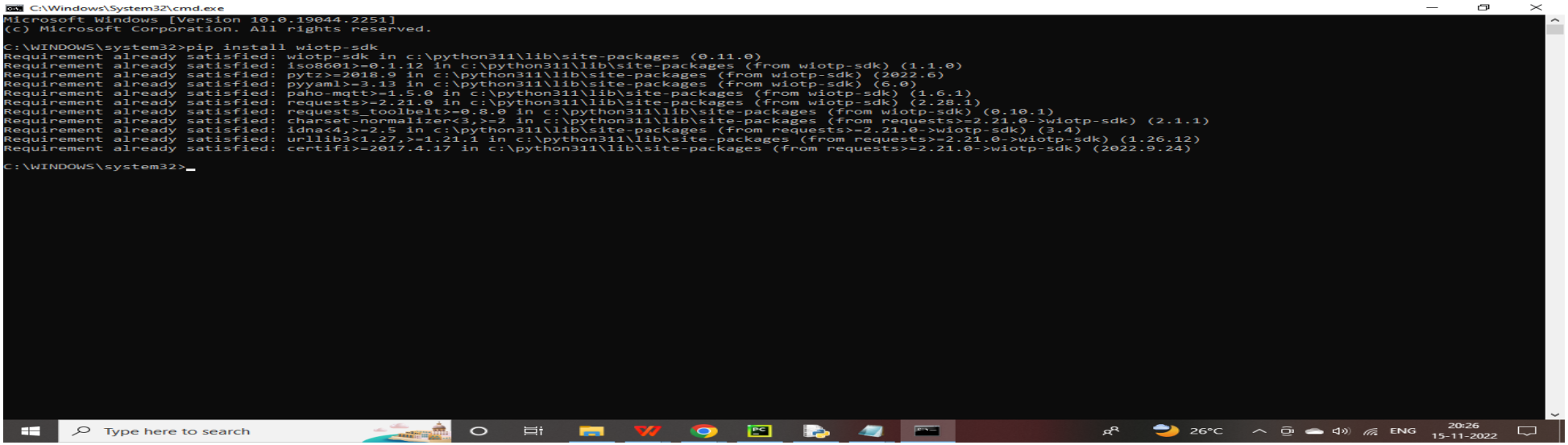
File Edit Format Run Options Window Help

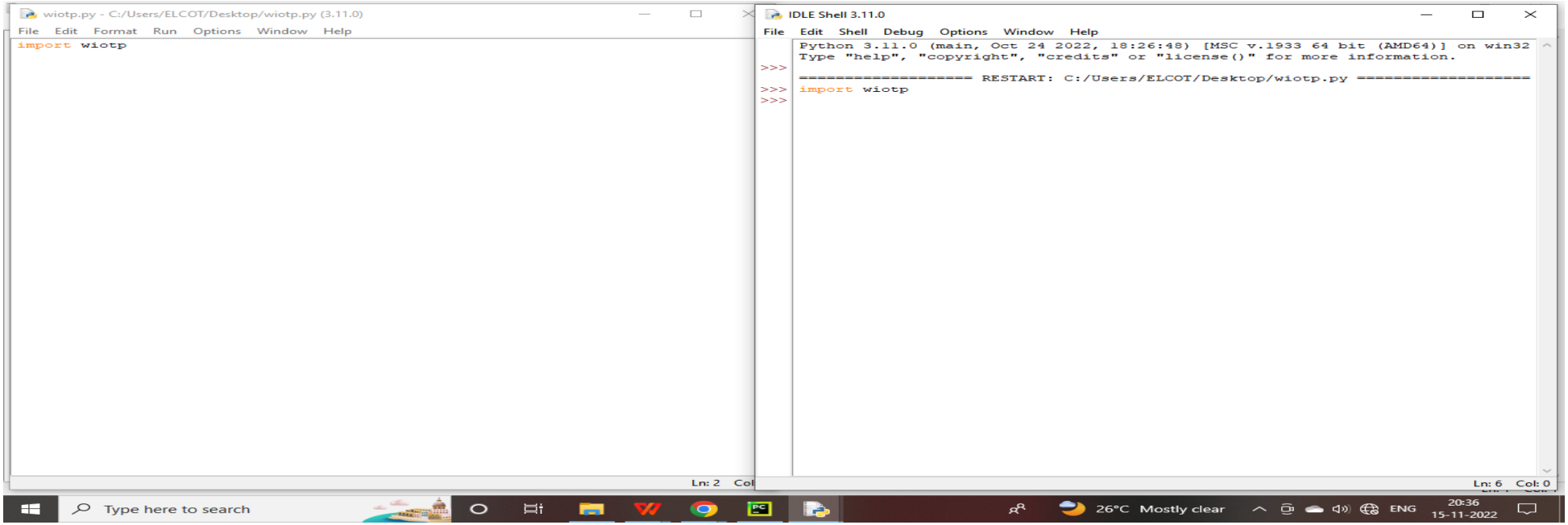
```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
import requests
import math
myConfig = {
    "identity": {
        "orgId": "[redacted]",
        "typeId": "chip",
        "deviceId":"0613"
    },
    "auth": {
        "token": "[redacted]"
    }
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
client.connect()

while True:
    name= "hema"
    #in area location

    #latitude= 17.4225176
    #longitude= 78.5458842

    #out area location

    latitude= 17.4225176
    longitude= 78.5458842
    myData={'name' : name, 'lat' :latitude, 'lon' :longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",myData)
    client.commandCallback = myCommandCallback
    time.sleep(5)

client.disconnect()
```

Ln: 1 Col: 0

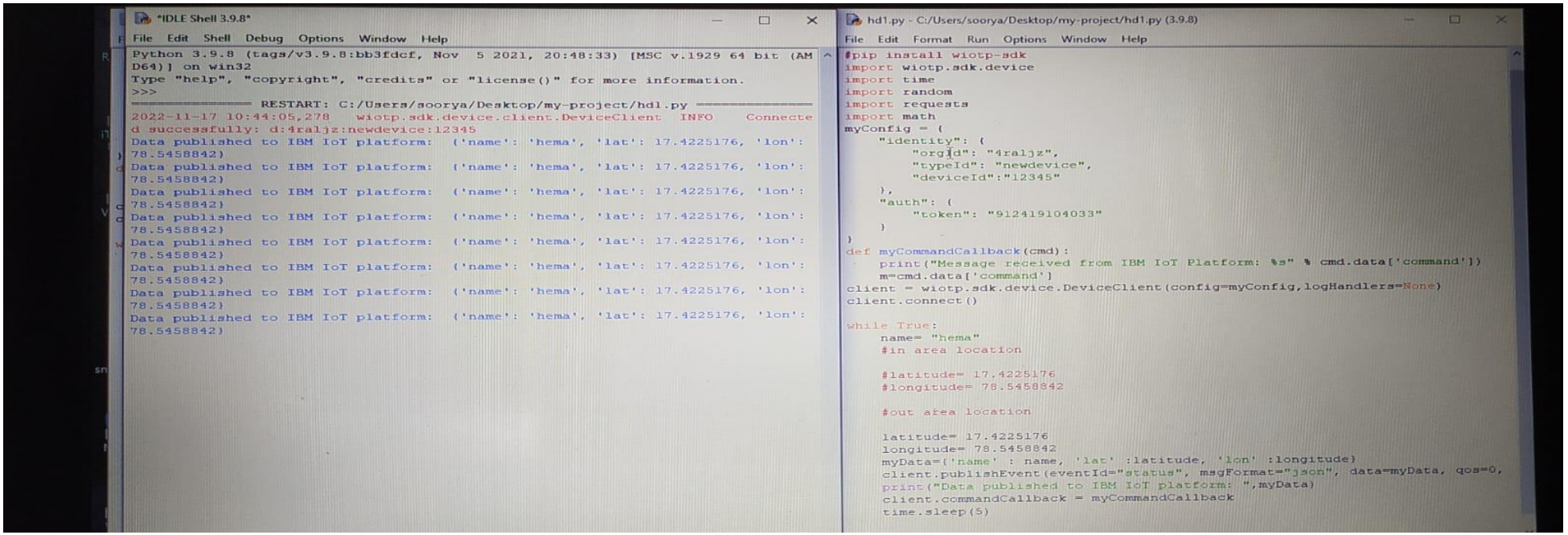
Type here to search 30°C Cloudy ENG 15:43 17-11-2022

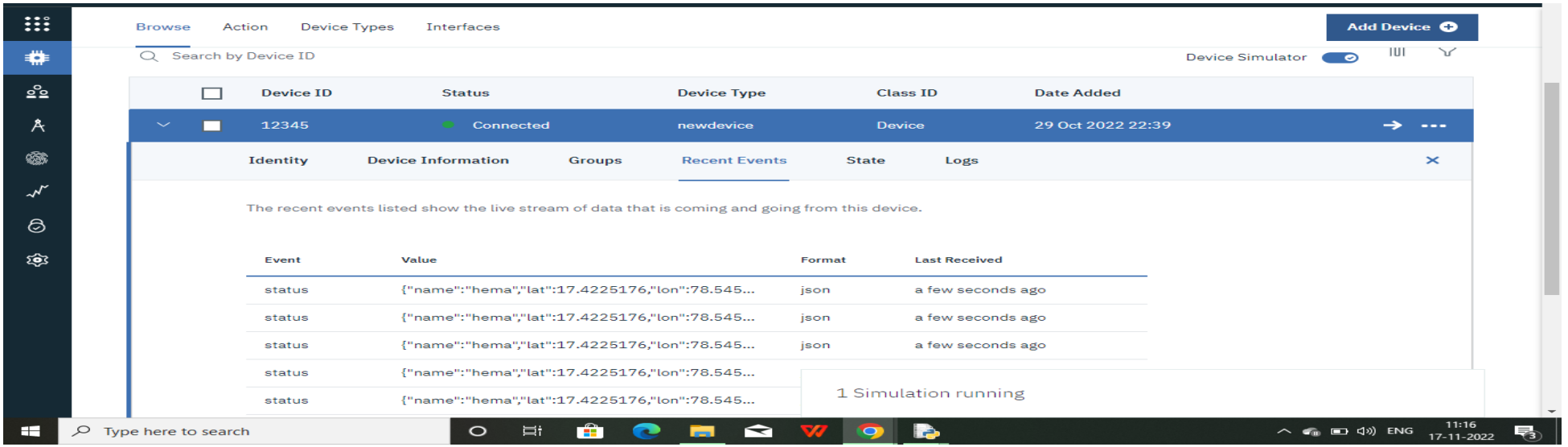
INSTALL WIOTP PACKAGE:





OUTPUT :


IDLE Shell 3.9.8
File Edit Shell Debug Options Window Help
Python 3.9.8 (tags/v3.9.8:bb3fdcf, Nov 5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Users/soorya/Desktop/my-project/hd1.py ==========
2022-11-17 10:44:05,278 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:4raljz:newdevice:12345
Data published to IBM IoT platform: {'name': 'hema', 'lat': 17.4225176, 'lon': 78.5458842}
hd1.py - C:/Users/soorya/Desktop/my-project/hd1.py (3.9.8)
File Edit Format Run Options Window Help
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
import requests
import math
myConfig = {
"identity": {
"orgId": "4raljz",
"typeId": "newdevice",
"deviceId":"12345"
},
"auth": {
"token": "912419104033"
}
}
def myCommandCallback(cmd):
print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
client.connect()
while True:
name= "hema"
#in area location
#latitude= 17.4225176
#longitude= 78.5458842
#out area location
latitude= 17.4225176
longitude= 78.5458842
myData={'name' : name, 'lat' :latitude, 'lon' :longitude}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
print("Data published to IBM IoT platform: ",myData)
client.commandCallback = myCommandCallback
time.sleep(5)


Browse
Action
Device Types
Interfaces
Add Device
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
12345
Connected
newdevice
Device
29 Oct 2022 22:39
Identity
Device Information
Groups
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
status
{"name":"hema","lat":17.4225176,"lon":78.545...
json
a few seconds ago
1 Simulation running
Type here to search
ENG
11:16
17-11-2022