PROJECT DEVELOPMENT PHASE
SPRINT-2
WATSON IOT

Team ID	PNT2022TMID11653
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	10 marks

AIM:

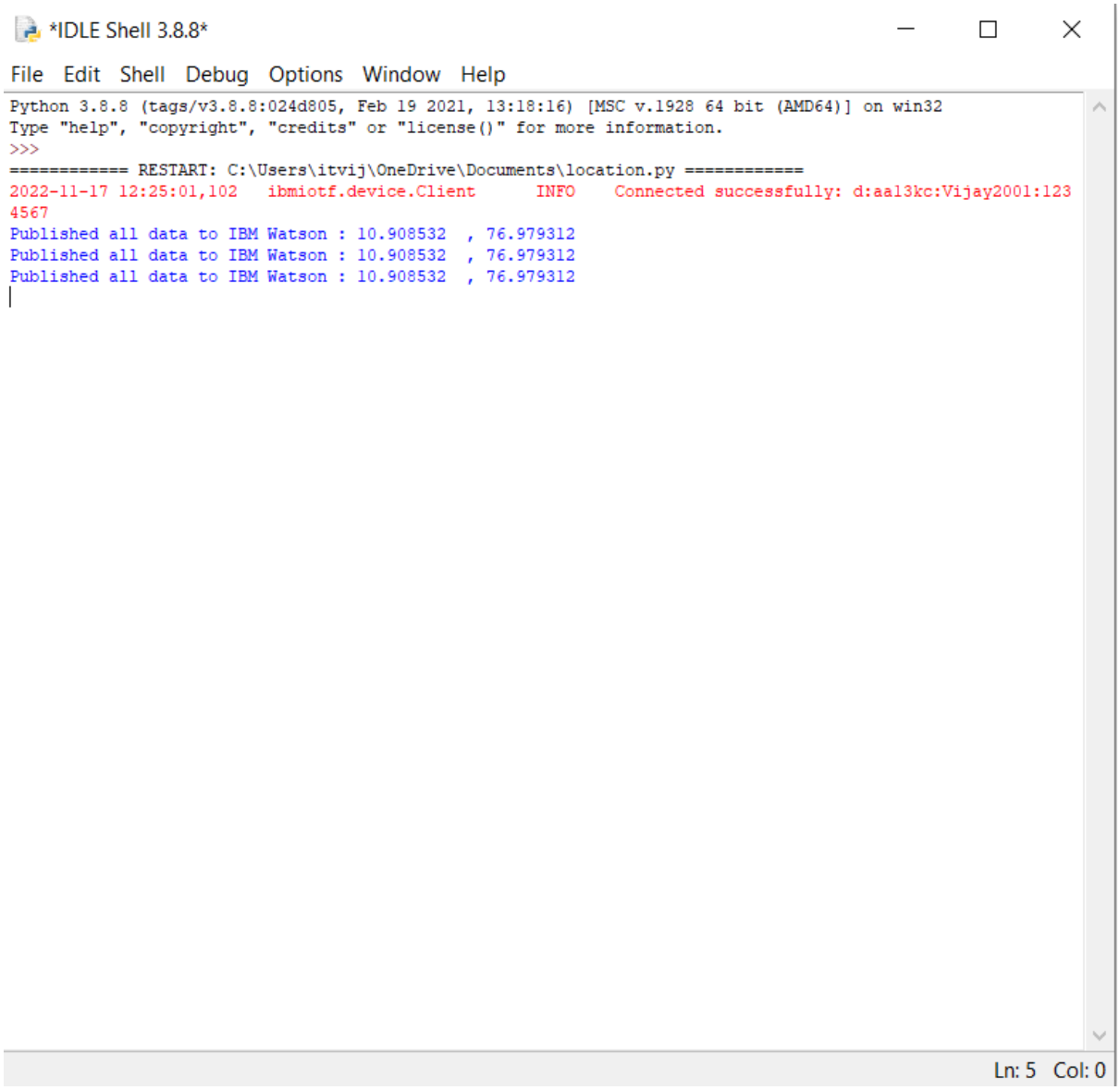
To connect tracking device or manually programmed python code to IBM Watson IoT Platform.

Source Code:

```
import random as rand
import time
import ibmiotf.application
import ibmiotf.device
import sys
import imdb

#defining credentials of device
organization = "aa13kc"
deviceType = "Vijay2001"
deviceId = "1234567"
authMethod = "token"
authToken = "Yd-6ozY-S6BLhM0vkw"

def myCommandCallback(cmd):
   print("Command received: %s" % cmd.data['command'])

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= "Vijay2001"
   lat= 10.908532
   lon= 76.979312
   #Manually sending the coordintes
   data = {'name':name,'Latitude' : lat,
         'Longitude': lon}
```

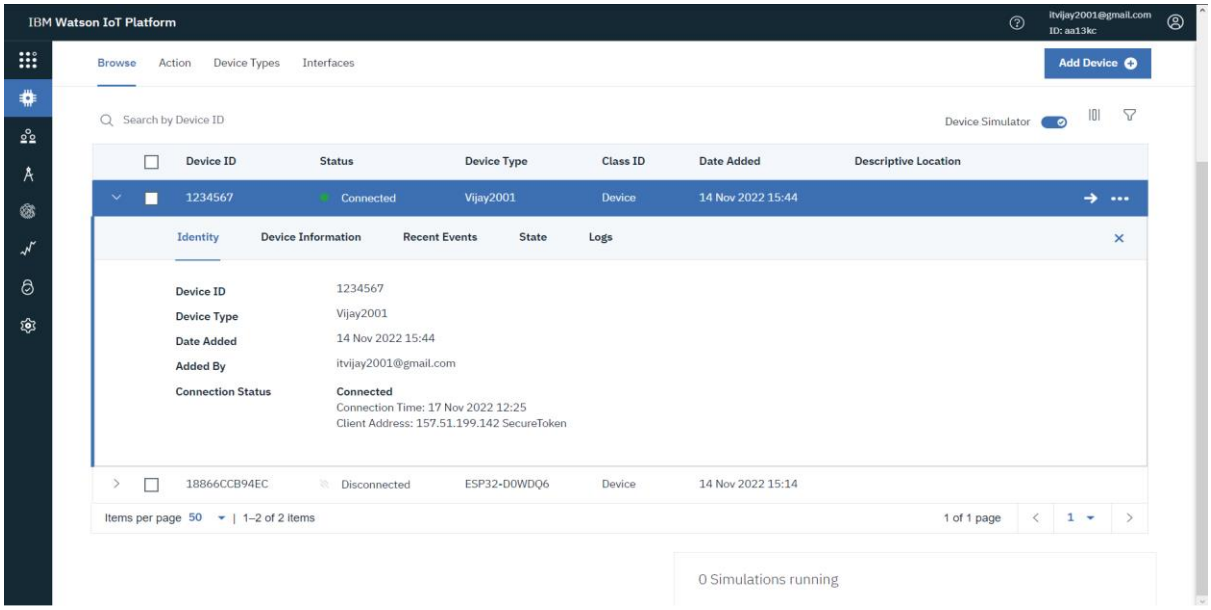
```
    def myOnPublishCallback():
        print("Published all data to IBM Watson :",lat," ,",lon)

    success =
deviceCli.publishEvent("Iottracker","json",data,qos=0,on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoT Device")
    time.sleep(5)

    deviceCli.commandCallback = myCommandCallback

deviceCli.disconnect()
```

Program output:



IBM Watson IoT:

- ✓ Device connected to IBM Watson IoT Platform.



- ✓ Getting coordinates as output in IBM Watson IoT Platform.