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": devic
: 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

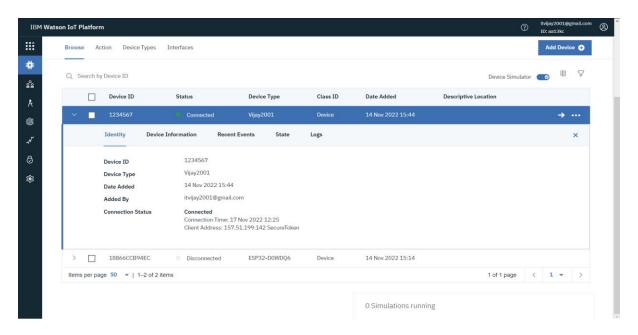
deviceCli.disconnect()
```

Program output:

```
*IDLE Shell 3.8.8*
                                                                                                                                                    \times
                                                                                                                                        File Edit Shell Debug Options Window Help
Python 3.8.8 (tags/v3.8.8:024d805, Feb 19 2021, 13:18:16) [MSC v.1928 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information.
====== RESTART: C:\Users\itvij\OneDrive\Documents\location.py ========
2022-11-17 12:25:01,102 ibmiotf.device.Client
                                                                                    Connected successfully: d:aal3kc:Vijay2001:123
Published all data to IBM Watson: 10.908532 , 76.979312
Published all data to IBM Watson: 10.908532 , 76.979312
Published all data to IBM Watson: 10.908532 , 76.979312
```

IBM Watson IoT:

✓ Device connected to IBM Watson IoT Platform.



✓ Getting coordinates as output in IBM Watson IoT Platform.

