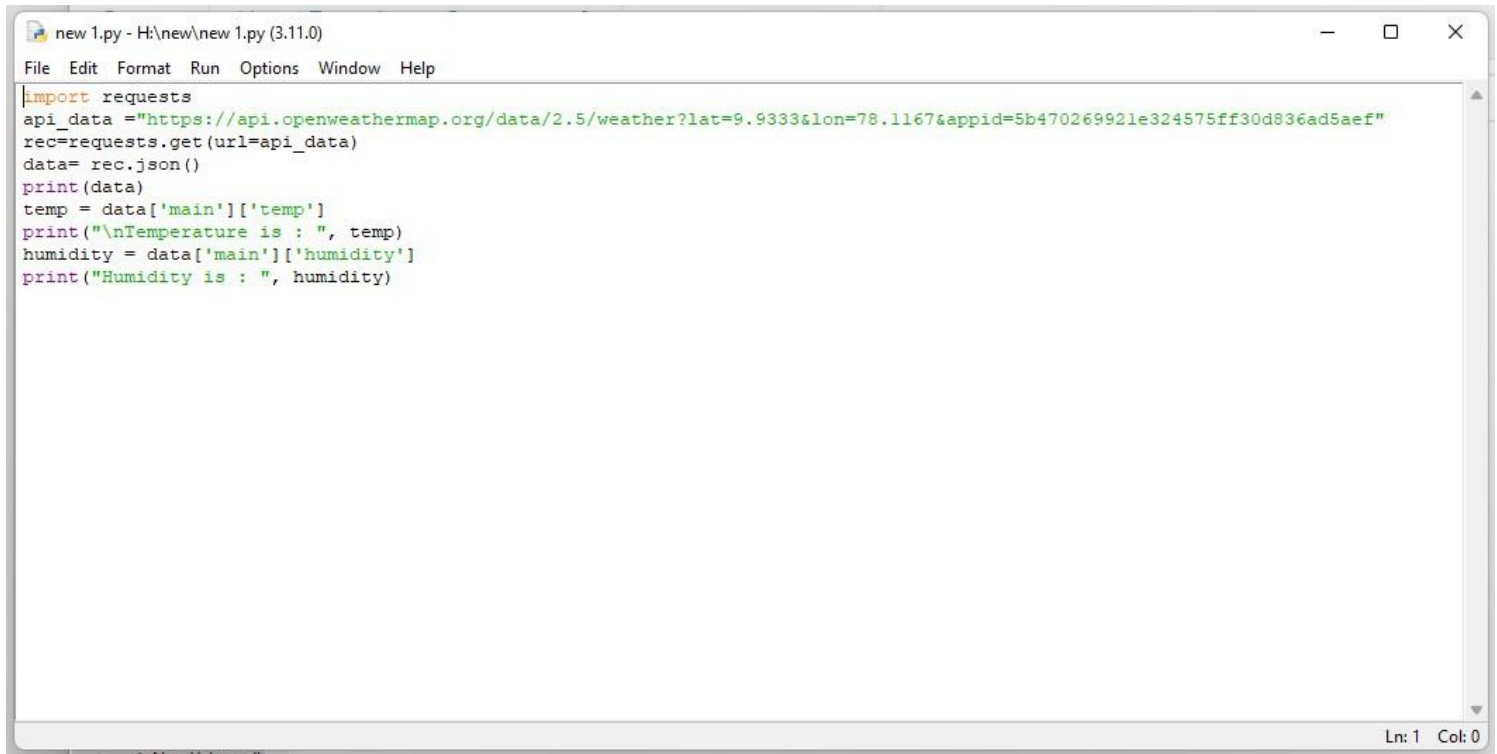


SPRINT – 02

Date :	02 November 2022
Team ID :	PNT2022TMID47905
Project Name	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

Sprint goal:

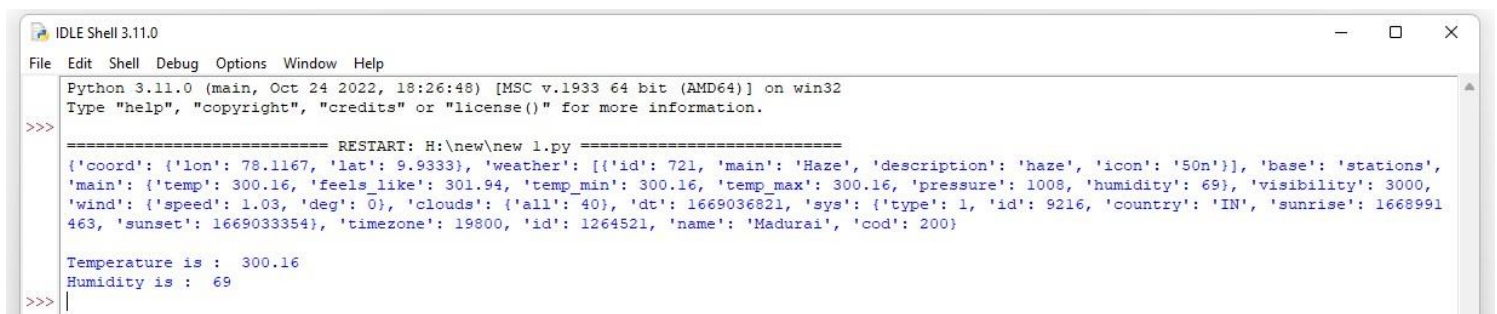
Push the code from Sprint 1 to cloud so it can be accessed from anywhere

A screenshot of a text editor window titled 'new 1.py - H:\new\new 1.py (3.11.0)'. The window has a menu bar with 'File', 'Edit', 'Format', 'Run', 'Options', 'Window', and 'Help'. The code is as follows:

```
import requests
api_data = "https://api.openweathermap.org/data/2.5/weather?lat=9.9333&lon=78.1167&appid=5b470269921e324575ff30d836ad5aef"
rec=requests.get(url=api_data)
data= rec.json()
print(data)
temp = data['main']['temp']
print("\nTemperature is : ", temp)
humidity = data['main']['humidity']
print("Humidity is : ", humidity)
```

The status bar at the bottom right shows 'Ln: 1 Col: 0'.

OUTPUT :

A screenshot of the IDLE Shell 3.11.0 window. The title bar says 'IDLE Shell 3.11.0'. The menu bar includes 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The output text is as follows:

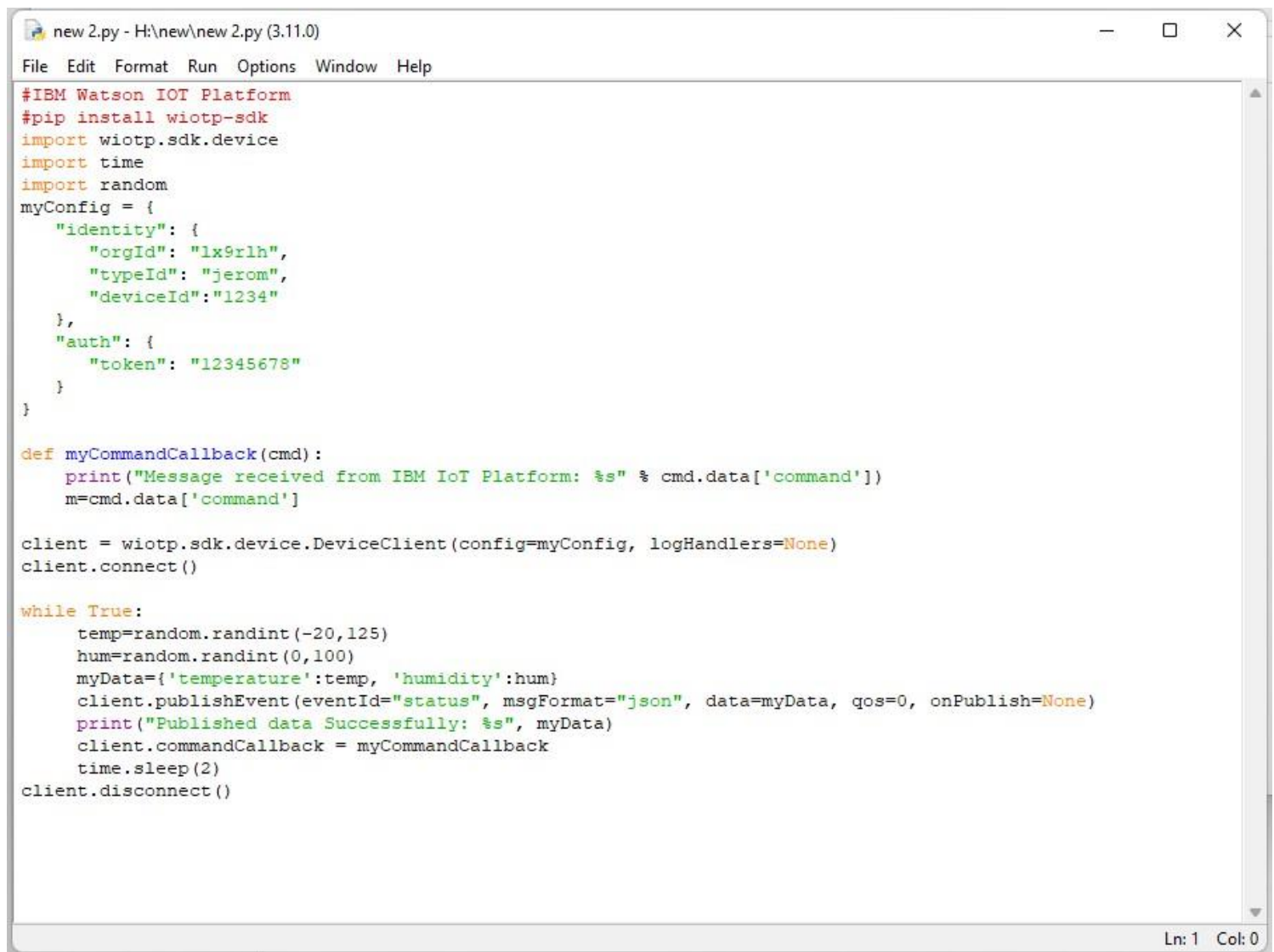
```
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: H:\new\new 1.py =====
{'coord': {'lon': 78.1167, 'lat': 9.9333}, 'weather': [{'id': 721, 'main': 'Haze', 'description': 'haze', 'icon': '50n'}], 'base': 'stations',
'main': {'temp': 300.16, 'feels_like': 301.94, 'temp_min': 300.16, 'temp_max': 300.16, 'pressure': 1008, 'humidity': 69}, 'visibility': 3000,
'wind': {'speed': 1.03, 'deg': 0}, 'clouds': {'all': 40}, 'dt': 1669036821, 'sys': {'type': 1, 'id': 9216, 'country': 'IN', 'sunrise': 1668991
463, 'sunset': 1669033354}, 'timezone': 19800, 'id': 1264521, 'name': 'Madurai', 'cod': 200}

Temperature is : 300.16
Humidity is : 69
>>> |
```

PYTHON CODE

```
import requests
api_data = "
https://api.openweathermap.org/data/2.5/weather?lat=9.9333&lon=78.1167&appid=5b470269921e324575ff30d836
ad5aef"
rec=requests.get(url=api_data)
data= rec.json()
print(data)
temp = data['main']['temp']
print("\nTemperature is : ", temp)
humidity = data['main']['humidity']
print("Humidity is : ", humidity)
```

PYTHON CODE TO IBM CLOUD



```
new 2.py - H:\new\new 2.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
myConfig = {
    "identity": {
        "orgId": "1x9rlh",
        "typeId": "jerom",
        "deviceId": "1234"
    },
    "auth": {
        "token": "12345678"
    }
}

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:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

Ln: 1 Col: 0

	Browse	Action	Device Types	Interfaces	Add Device +
	Identity	Device Information	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		
event_1	{"temperature":71,"humidity":2}	json	a few seconds ago		
event_1	{"temperature":18,"humidity":15}	json	a few seconds ago		
event_1	{"temperature":19,"humidity":31}	json	a few seconds ago		
event_1	{"temperature":95,"humidity":48}	json	a few seconds ago		
event_1	{"temperature":90,"humidity":2}	json	a few seconds ago		

PYTHON CODE:

#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = {

 "identity": {

 "orgId": "lx9rlh",

 "typeId": "jerom",

 "deviceId":"1234"

 },

 "auth": {

 "token": "12345678"

 }

}

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:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```