SPRINT-1:

Date	29 October 2022
Team ID	PNT2022TMID04540
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application

PYTHON PROGRAM TO GET CONNECTED WITH IBM IOT WATSON PLATFORM:
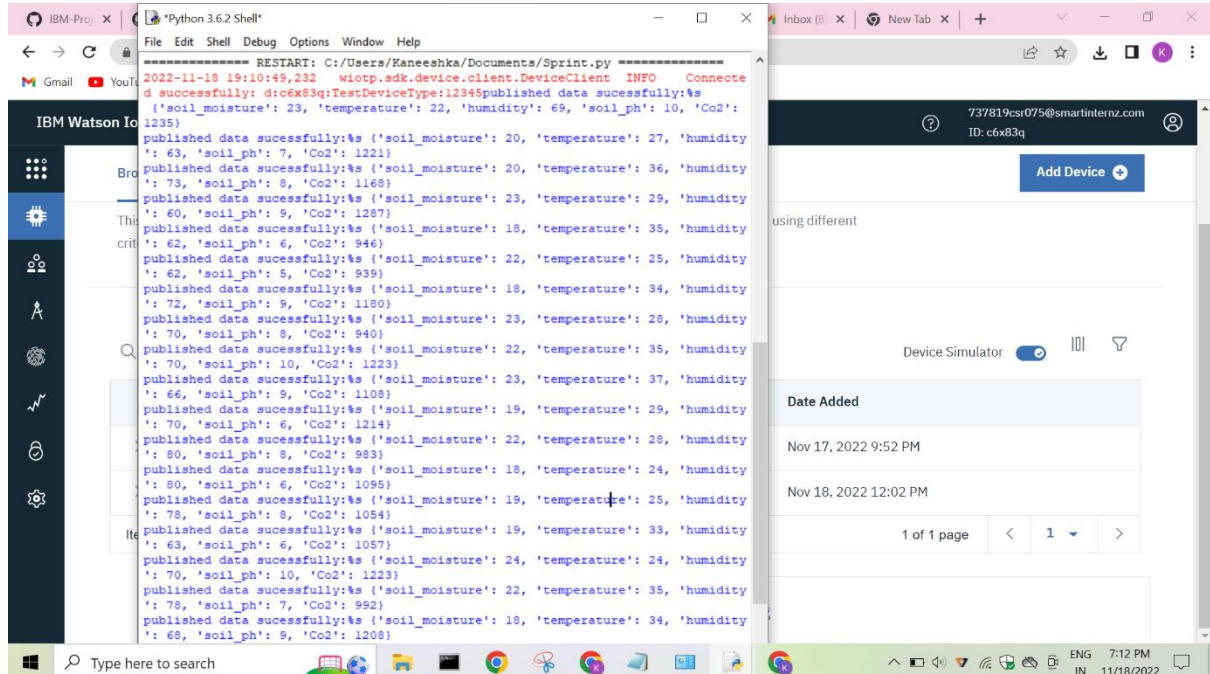
Python code:

```python
import wiotp.sdk.device
import time
import datetime
import random
myConfig = {
    "identity": {
        "orgId": "c6x83q",
        "typeId": "TestDeviceType",
        "deviceId":"12345"
    },
    "auth": {
        "token": "QZvsZ3UmMIicuzf0Gt"
    }
}

client=wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
client.connect()

def myCommandCallback(cmd):
    print("Message recevied from IBM IOT platform: %s" % cmd.data ['command'])
    m=cmd.data['command']
    if(m=="motoron"):
        print("Motor is switched on")
    elif(m=="motoroff"):
        print("Motor is switched off")
    print(" ")
while True:
    soil=random.randint(18,24)
    temp=random.randint(21,37)
    hum=random.randint(60,80)
    soil_ph=random.randint(5,10)
    Co2=random.randint(900,1300)
    myData={'soil_moisture':soil,'temperature':temp,'humidity':hum,'soil_ph':soil_ph,'Co2':Co2}
    client.publishEvent(eventId="status",msgFormat="json",data=myData,qos=0,onPublish=None)
    print("published data sucessfully:%s",myData)
    time.sleep(5)
```
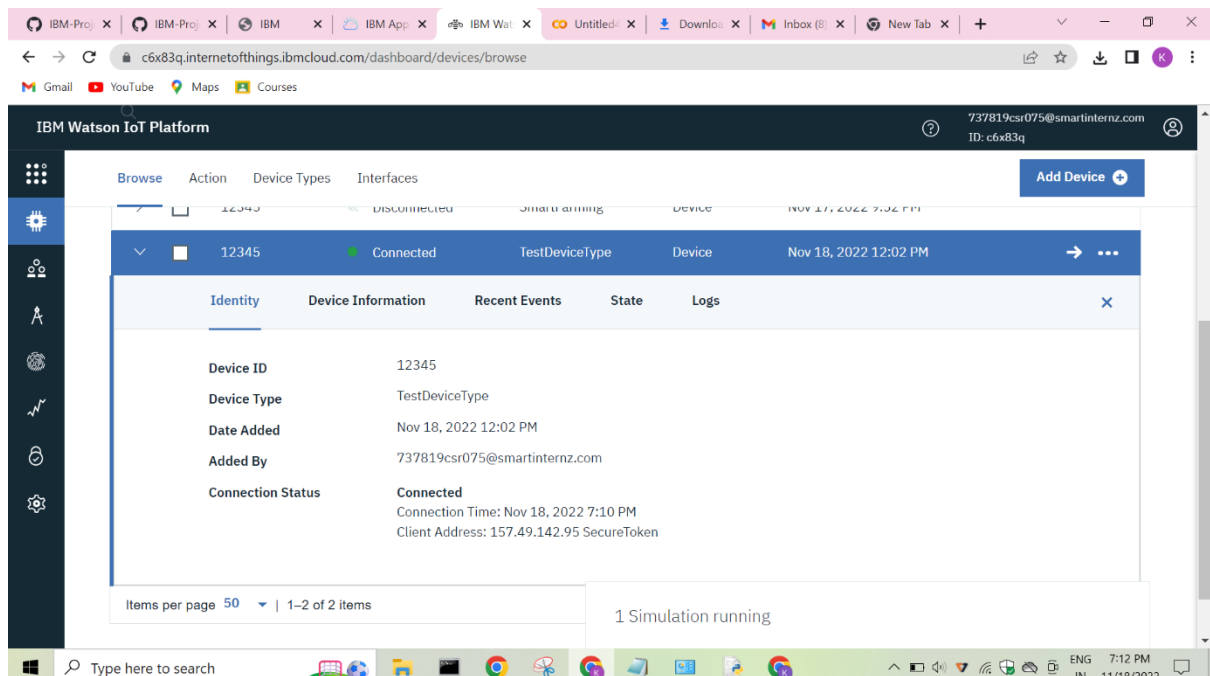
```
    client.commandCallback=myCommandCallback
client.disconnect()
```

OUTPUT: