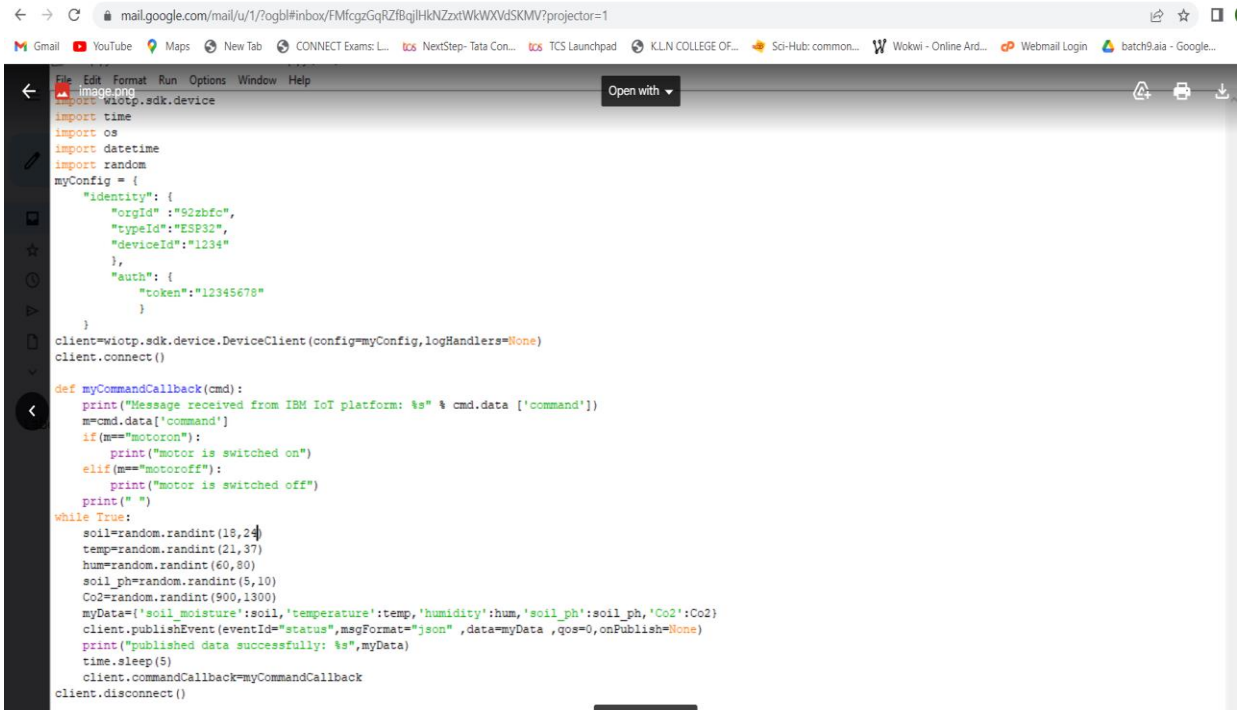
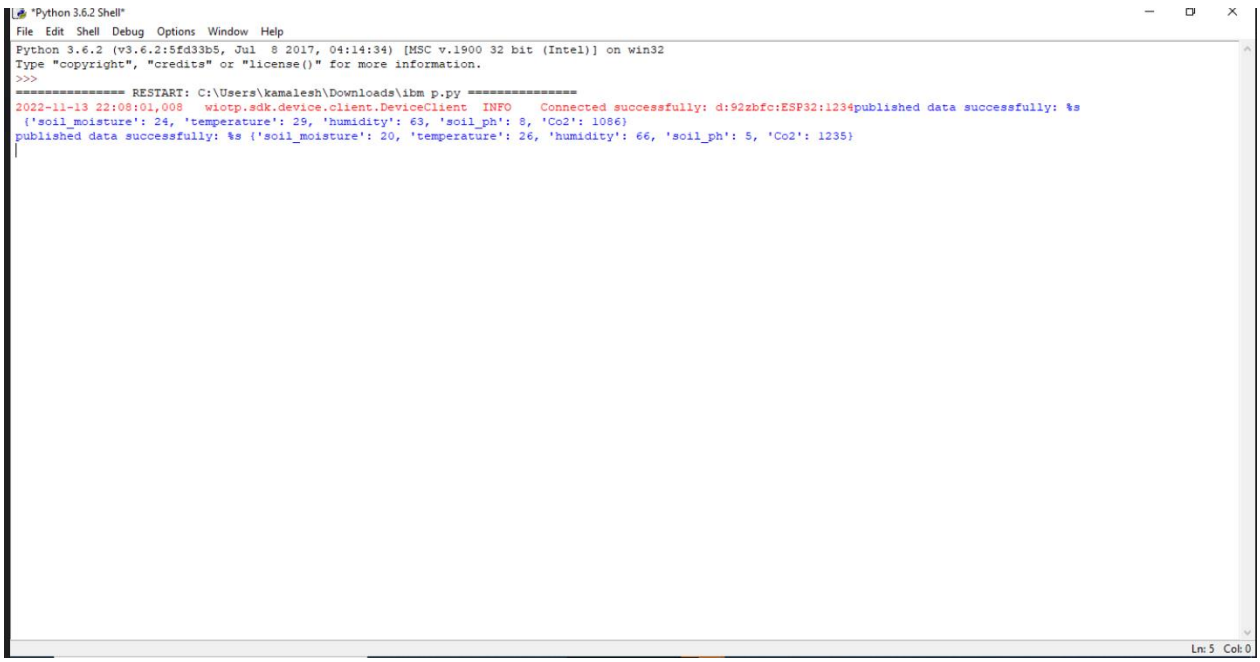
SPRINT 1- PYTHON PROGRAM TO GET CONNECTED WITH IBM IOT WATSON PLATFORM:

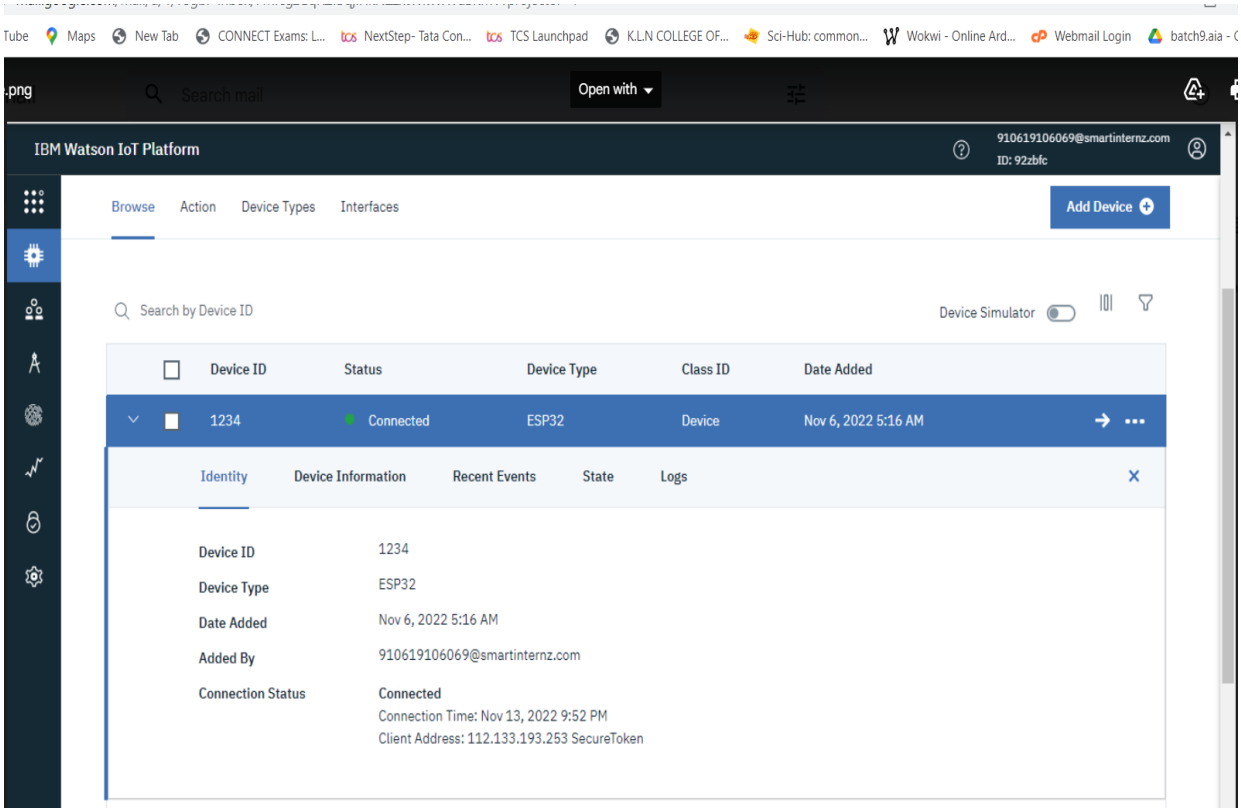


```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
    "identity": {
        "orgId" :"92zbfc",
        "typeId":"ESP32",
        "deviceId":"1234"
        },
        "auth": {
            "token":"12345678"
            }
    }
client=wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
client.connect()

def myCommandCallback(cmd):
    print("Message received 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 successfully: %s",myData)
    time.sleep(5)
    client.commandCallback=myCommandCallback
client.disconnect()
```



```
Python 3.6.2 (v3.6.2:5fd33b5, Jul  8 2017, 04:14:34) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\kamalesh\Downloads\ibm p.py ==========
2022-11-13 22:08:01,008   wiotp.sdk.device.client.DeviceClient  INFO    Connected successfully: d:92zbfc:ESP32:1234published data successfully: %s
 {'soil_moisture': 24, 'temperature': 29, 'humidity': 63, 'soil_ph': 8, 'Co2': 1086}
published data successfully: %s {'soil_moisture': 20, 'temperature': 26, 'humidity': 66, 'soil_ph': 5, 'Co2': 1235}
```


Tube
Maps
New Tab
CONNECT Exams: L...
NextStep- Tata Con...
TCS Launchpad
K.L.N COLLEGE OF...
Sci-Hub: common...
Wokwi - Online Ard...
Webmail Login
Open with
IBM Watson IoT Platform
910619106069@smartinternz.com
ID: 92zbfc
Browse
Action
Device Types
Interfaces
Add Device
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
1234
Connected
ESP32
Device
Nov 6, 2022 5:16 AM
Identity
Device Information
Recent Events
State
Logs
Device ID
1234
Device Type
ESP32
Date Added
Nov 6, 2022 5:16 AM
Added By
910619106069@smartinternz.com
Connection Status
Connected
Connection Time: Nov 13, 2022 9:52 PM
Client Address: 112.133.193.253 SecureToken