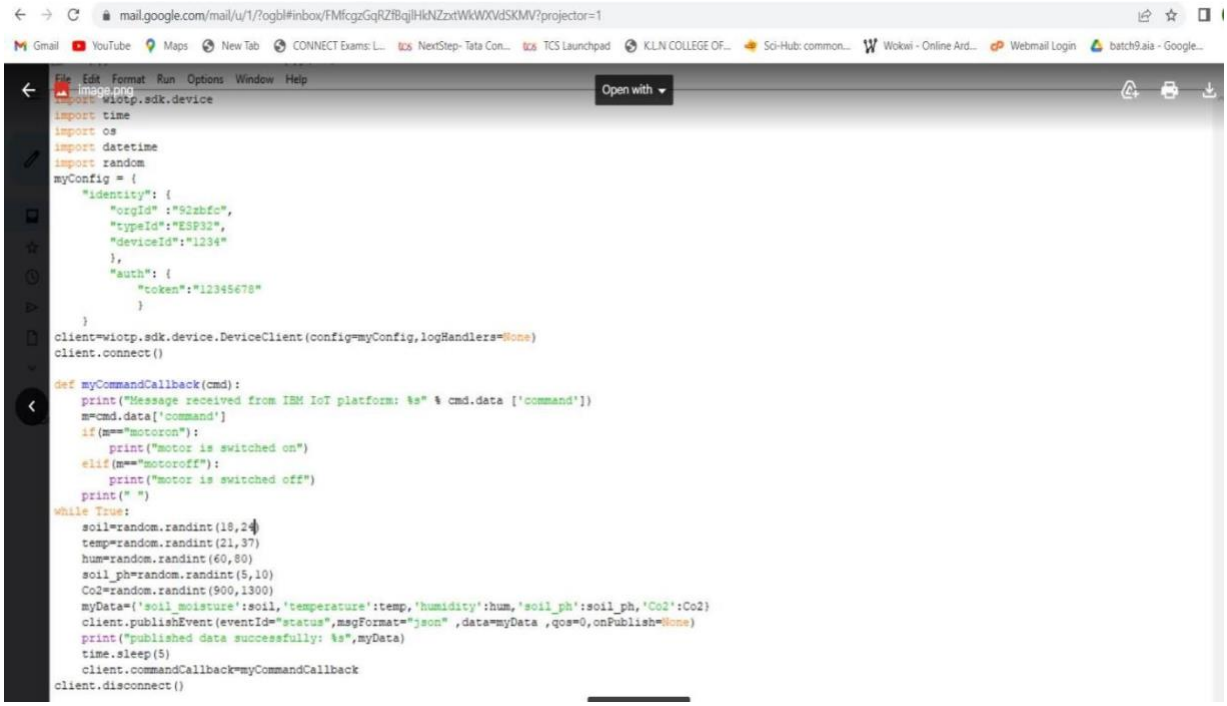
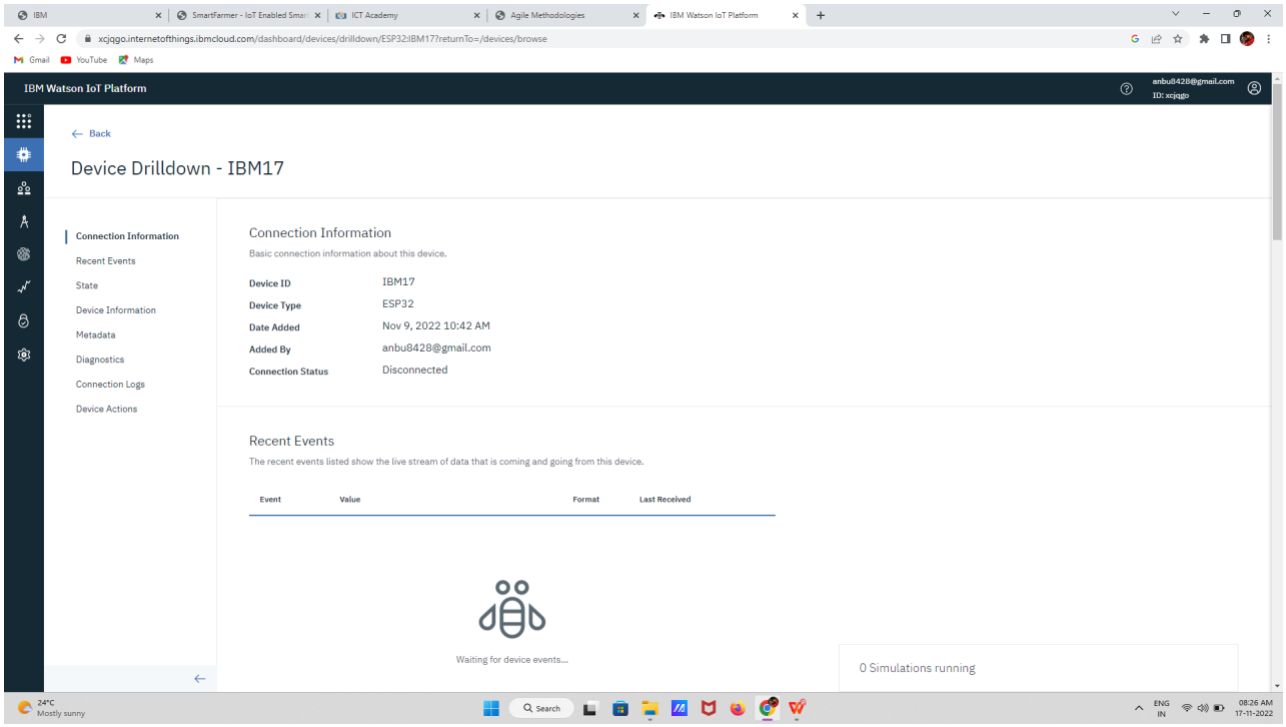
SPRINT 1- PYTHON PROGRAM TO GET CONNECTED WITH IBM IOT WATSON PLATFORM:



```
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}
```


IBM Watson IoT Platform
anbu8428@gmail.com
ID: xcjqgo
Back
Device Drilldown - IBM17
Connection Information
Recent Events
State
Device Information
Metadata
Diagnostics
Connection Logs
Device Actions
Connection Information
Basic connection information about this device.
Device ID IBM17
Device Type ESP32
Date Added Nov 9, 2022 10:42 AM
Added By anbu8428@gmail.com
Connection Status Disconnected
Recent Events
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
Waiting for device events...
0 Simulations running