SPRINT 3

TEAM ID	PNT2022TMID13531
PROJECT NAME	Smartfarmer - IOT enabled smart
	Farming Application

DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM:

PYTHON CODE

```
import wiotp.sdk.device
import time
import os
import datetime
import random

myConfig = {
    "identity":{
        "orgId":"nqhzg5",
        "typeId":"Node-red",
        "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(0,100)
  temp=random.randint(-20,125)
  hum=random.randint(0,100)
  myData={'soil_moisture':soil,'temperature':temp,'humidity':hum}
  client.publishEvent(eventId="status", msgFormat="json",
data=myData, qos=0, onPublish=None)
  print("Published data successfully: %s", myData)
  time.sleep(2)
  client.commandCallback = myCommandCallback
client.disconnect()
```

OUTPUT SCREENSHOT:

