

Develop a Python Script

Date	11 November 2022
TEAM ID	PNT2022TMID32078
Project Name	IoT Based smart crop Protection system for agriculture

Task – Develop a Python Script

```
import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig = {

"identity": {

"orgId": "hjSfmy",

"typeId": "DeviceIdk",

"deviceId": "67890"

},

"auth": {

"token": "87654321"

}

}

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 ()

```