

TEAM ID	PNT2022TMID22832
PROJECT	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

## SPRINT 3

Step 1: Develop a python script

### Develop a Python Script

```
import  
  
wiotp.sdk.device  
  
import time  
  
import os  
  
import  
  
datetime  
  
import  
  
random  
  
myConfig  
  
= {  
  
    "identity": {  
  
        "orgId":  
  
        "hjSfmy",  
  
        "typeId":
```

```

    "DeviceId",

    "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.randi
```

```
    nt (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 ()
```