

DEVELOP A PYTHON SCRIPT

Date	10 November 2022
Team ID	PNT2022TMID36188
Project Name	Smart Crop Protection For Agriculture
Maximum Marks	10 Marks

```
import wiotp.sdk.device
```

```
import time
```

```
import os
```

```
import datetime
```

```
import random
```

```
myConfig = {
```

```
"orgId": "h4y8u",
```

```
"typeId": "PNT2022TMID36188",
```

```
"deviceId": " PNT2022TMID36188",
```

```
"auth}
```

```
token": "8H66**cxW0&Nm-iI1f"
```

```
}}
```

```
client = wiotp.sdk.device.DeviceClient (config=myConfig,logHandlers=None)
```

```
client.connect ()
```

```
def myCommandCallback (cmd) :
```

```
    print("command received: %s" % cmd.data
```

```

if cmd.data ['command']== 'MOTOR ON':

    print("MOTOR ON IS RECEIVED")

elif cmd.data['command']== 'MOTOR OFF':

    print(" MOTOR OFF IS RECEIVED")

if cmd.command == " set interval":

    if 'interval' not in cmd.data:

        print(" Error – command is missing required information: ‘interval’")

    else:

        interval = cmd.data['interval']

elif cmd.command == "print":

    if ' message' not in cmd.data:

        print("Error – command is missing required information: ‘message’")

    else:

        output=cmd.data['message']

        print (output)

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 ()
```