

Develop A Python Script To Publish & Subscribe To IBM IoT Platform

Develop The Python Code

Team ID	PNT2022TMID15028
Project Name	Project : SmartFarmer - IoT Enabled Smart Farming Application

PYTHON CODE:

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

```
myConfig = {
    "identity": {
        "orgId" : "vo6jfg",
        "typeId" : "Arduino",
        "deviceId" : "2266"
    },
    "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(90,125)
```

```
    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(5)
```

```
    client.commandCallback=myCommandCallback
```

```
client.disconnect()
```