

DEVELOP A PYTHON SCRIPT TO PUBLISH ANDSUBSCRIBE TO IBM IOT PLATFORM

**Develop The Python
Code**

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Team ID	PNT2022TMID11130
Project Name	Smart Farmer - IoT Enabled Smart Farming Application

PROGRAM:

```
>>> 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()
```