

DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM

Team ID : PNT2022TMID49297

CODE:

```
import time
import sys
import ibmiotf.application # to install pip install ibmiotf
import ibmiotf.device

#Provide your IBM Watson Device Credentials
organization = "0lsrz8" # repalce it with organization ID
deviceType = "Agriculture_1" #replace it with device type
deviceId = "Device_2" #repalce with device id
authMethod = "token"
authToken = "Sumit@123"#repalce with token

def myCommandCallback(cmd): # function for Callback
    print("Command received: %s" % cmd.data)
    if cmd.data['command']=='motoron':
        print("Turn Motor ON")

    elif cmd.data['command']=='motoroff':
        print("Turn Motor OFF")
    elif cmd.data['command']=='lighton':
        print("Turn Light ON")
    elif cmd.data['command']=='lightoff':
        print("Turn Light OFF")

    if cmd.command == "setInterval":

        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)

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod,
"auth-token": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
    #.....
```

except Exception as e:

print("Caught exception connecting device: %s" % str(e))
sys.exit()

Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times

deviceCli.connect()

while True:

deviceCli.commandCallback = myCommandCallback

Disconnect the device and application from the cloud

deviceCli.disconnect()