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| Team ID | PNT2022TMID42568 |
| Project Name | Smart Farmer - IoT Enabled Smart Farming Application |

**The Python Code**

import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig = {

"identity": {

"orgId": "hj5fmy",

"typeId": "Devicel",

"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']

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()