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

Date	07 November 2022
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Project Name	Project - SmartFarmer - IoT Enabled Smart Farming Application

Python Code:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
import requests
import json
myConfig = {
  "identity": {
    "orgId": "drhkpn",
   "typeId": "Smart-Farmer",
    "deviceId":"9192"
  },
  "auth": {
    "token": "SO_kL5!_*299@q6i4r"
  }
}
def myCommandCallback(cmd):
```

```
if(cmd.data['firstlight']=="on"):
  print("-----Light 1 is ON-----")
else:
 print("-----light 1 is OFF-----")
if(cmd.data['secondlight']=="Second Light ON"):
 print("----Light 2 is ON-----")
 else:
 print("-----Light 2 is OFF-----")
if(cmd.data['motor']=="Motor ON"):
  print("----Motor is ON-----")
 else:
 print("----Motor is OFF-----")
111
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while(True):
weatherdata =
requests.get('https://api.openweathermap.org/data/2.5/weather?q=Chennai&appid=3942dd61b26410
206c466575e5addfbf')
a=weatherdata.text
b=json.loads(a) # Class after import json
c=(b["main"]["temp"]-273.15)
d=(b["main"]["humidity"])
myData={'temp':c, 'humid':d}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
```

```
print("Published data Successfully: %s", myData)

client.commandCallback = myCommandCallback

time.sleep(2)

print()

client.disconnect()
```