Develop A Python Script

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IBM ID : IBM-Project-31889-1660205917
PROJECT TITLE: IOT Based Safety gadget For child Safety Monitoring & Notification

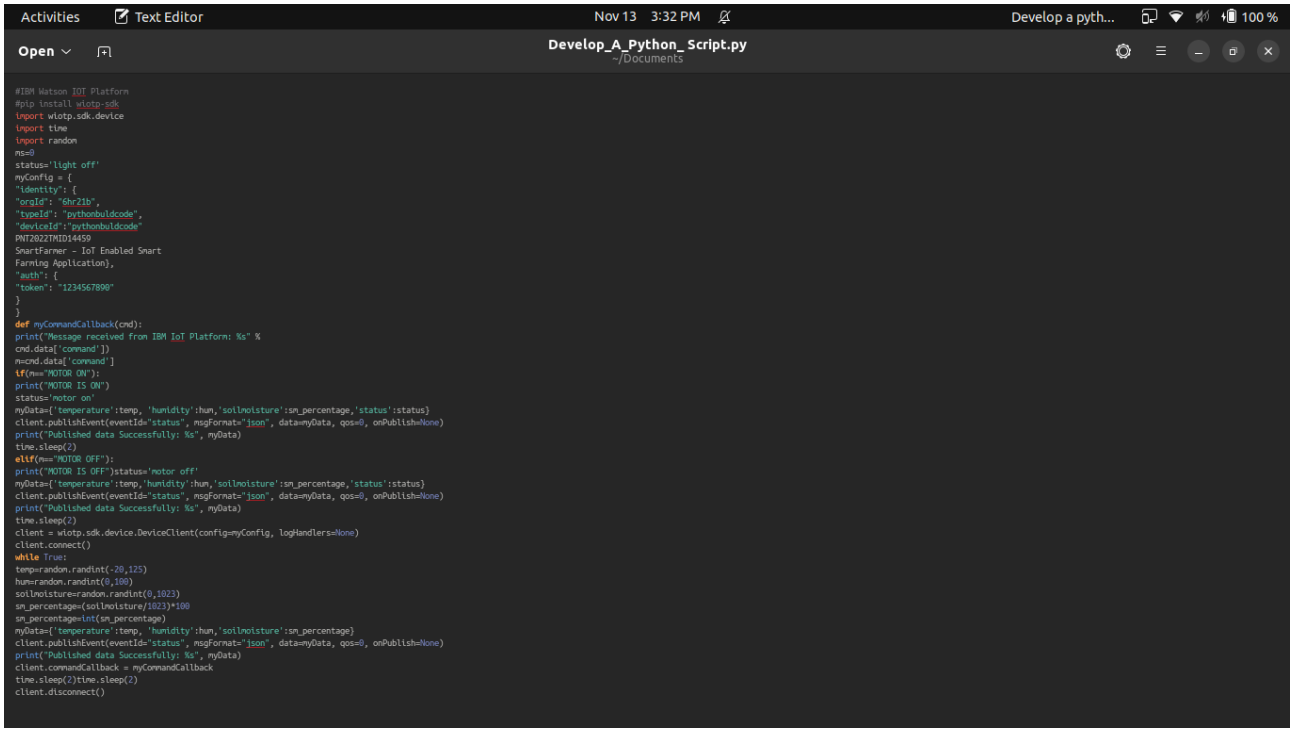
Goal:
To develop the python code to publish and subscribe to the commands from the IBM cloud.

Code:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
ms=0
status='light off'
myConfig = {
"identity": {
"orgId": "6hr21b",
"typeId": "pythonbuldcode",
"deviceId":"pythonbuldcode"
PNT2022TMID14459
SmartFarmer – IoT Enabled Smart
Farming Application},
"auth": {
"token": "1234567890"
}
}
def myCommandCallback(cmd):
print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
m=cmd.data['command']
if(m=="MOTOR ON"):
print("MOTOR IS ON")
status='motor on'
myData={'temperature':temp,
'humidity':hum,'soilmoisture':sm_percentage,'status':status}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
```

```
print("Published data Successfully: %s", myData)
time.sleep(2)
elif(m=="MOTOR OFF"):
print("MOTOR IS OFF")status='motor off'
myData={'temperature':temp,'humidity':hum,'soilmoisture':sm_percentage,'status':stat
us}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
print("Published data Successfully: %s", myData)
time.sleep(2)
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
temp=random.randint(-20,125)
hum=random.randint(0,100)
soilmoisture=random.randint(0,1023)
sm_percentage=(soilmoisture/1023)*100
sm_percentage=int(sm_percentage)
myData={'temperature':temp, 'humidity':hum,'soilmoisture':sm_percentage}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
print("Published data Successfully: %s", myData)
client.commandCallback = myCommandCallback
time.sleep(2)time.sleep(2)
client.disconnect()
```

python code:



Watson connectio: