

SPRINT - 2

Date	18 NOVEMBER 2022
Team ID	PNT2022TMID38157
Project Name	Smart Farmer - IoT Enabled Smart Farming Application

TEAM MEMBERS :

SRI RAJESWARI E	411819104014
MATHIBALAN M	411819104007
RUHI ANGEL A	411819104901
THIRUPONPUGAZH P	411819104016

PYTHON SCRIPT :

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
organization = "zxnybt"
deviceType = "dominators"
deviceId = "12345"
authMethod = "token"
authToken = "123456789"
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data)
    for key in cmd.data.keys():
        if key == 'motor':
            if cmd.data['motor'] == 'ON':
                print("MOTOR is turned ON")
            elif cmd.data['motor'] == 'OFF':
                print("MOTOR is turned OFF")
    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()
deviceCli.connect()
while True:

    temp=random.randint(0,40)
    Humid=random.randint(0,100)
    moist=random.randint(0,40)
    data = { 'temperature' : temp, 'humidity': Humid, 'soil_moisture':moist
    }

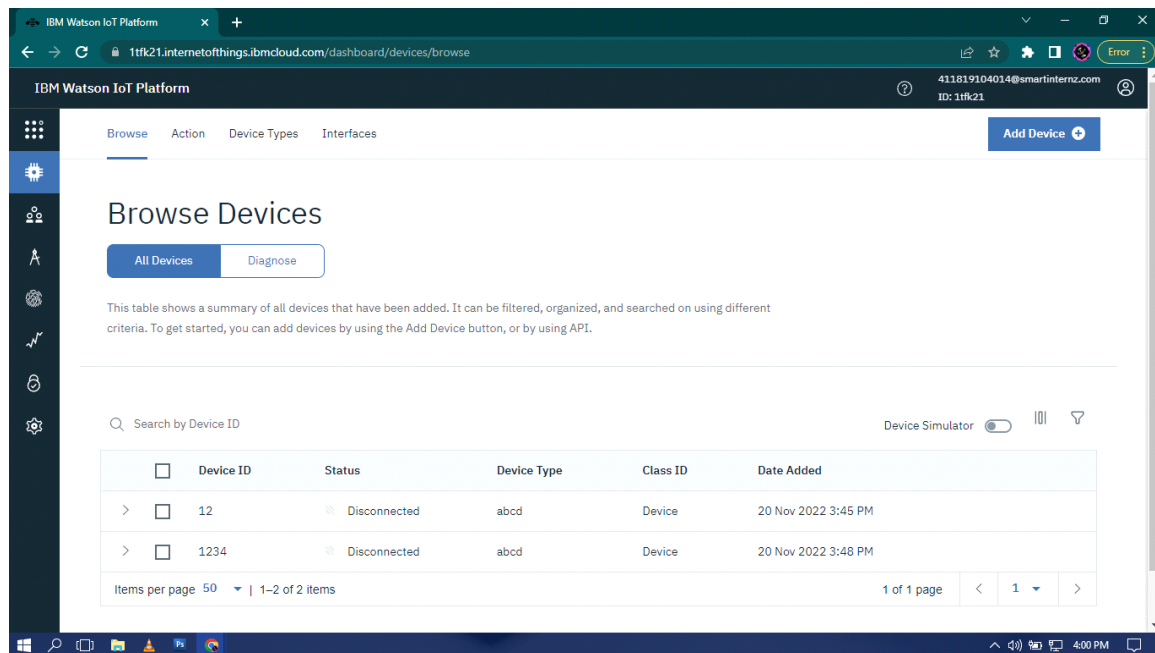
    def myOnPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity = %s
        %%" % Humid, "soil moisture =%s" % moist,"to IBM Watson")
        success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
        on_publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
            time.sleep(10)

    deviceCli.commandCallback = myCommandCallback
deviceCli.

disconnect()

```

**PYTHON SCRIPT CONFIGURED TO IBM WATSON IoT
PLATFORM :**



THE SENSOR DATAS IN THE PYTHON SCRIPT WILL BE RECEIVED BY IBM WATSON IOT PLATFORM :

