SPRINT 2

| Date | 19 November 2022 |
|--------------|--|
| Team ID | PNT2022TMID38164 |
| Project Name | Project – Smart Farmer-IoT Enabled smart |
| | Farming Application |

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PYTHON SCRIPT:-

import time import sys import ibmiotf.application import ibmiotf.device import random

```
organization = "zxnybt"
deviceType = "dominators"
deviceId = "12345"
authMethod = "token"
authToken = "123456789"
```

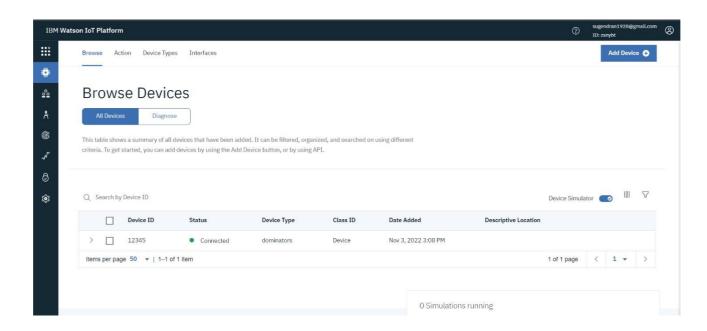
try:

```
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")
```

```
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:-

