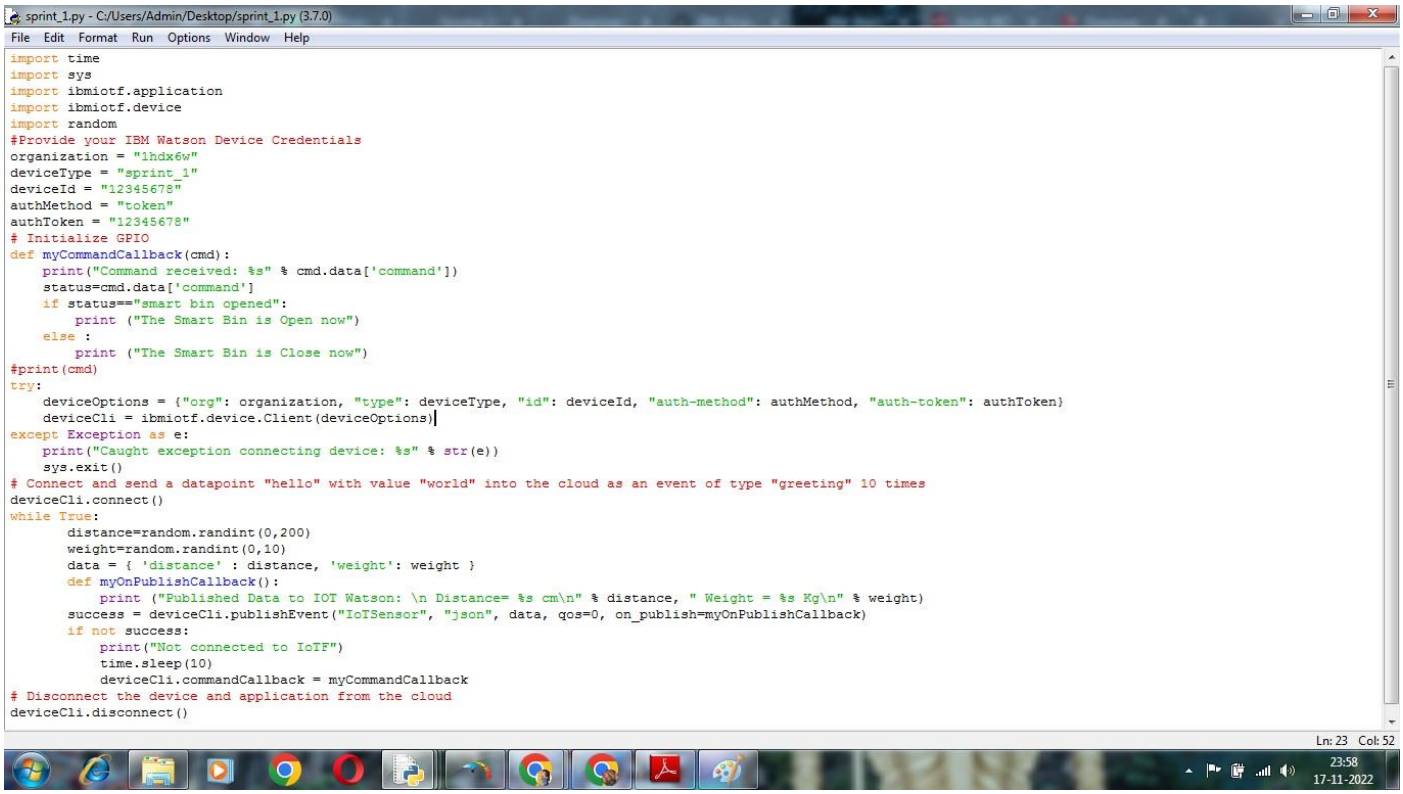
DELIVERY OF SPRINT 1

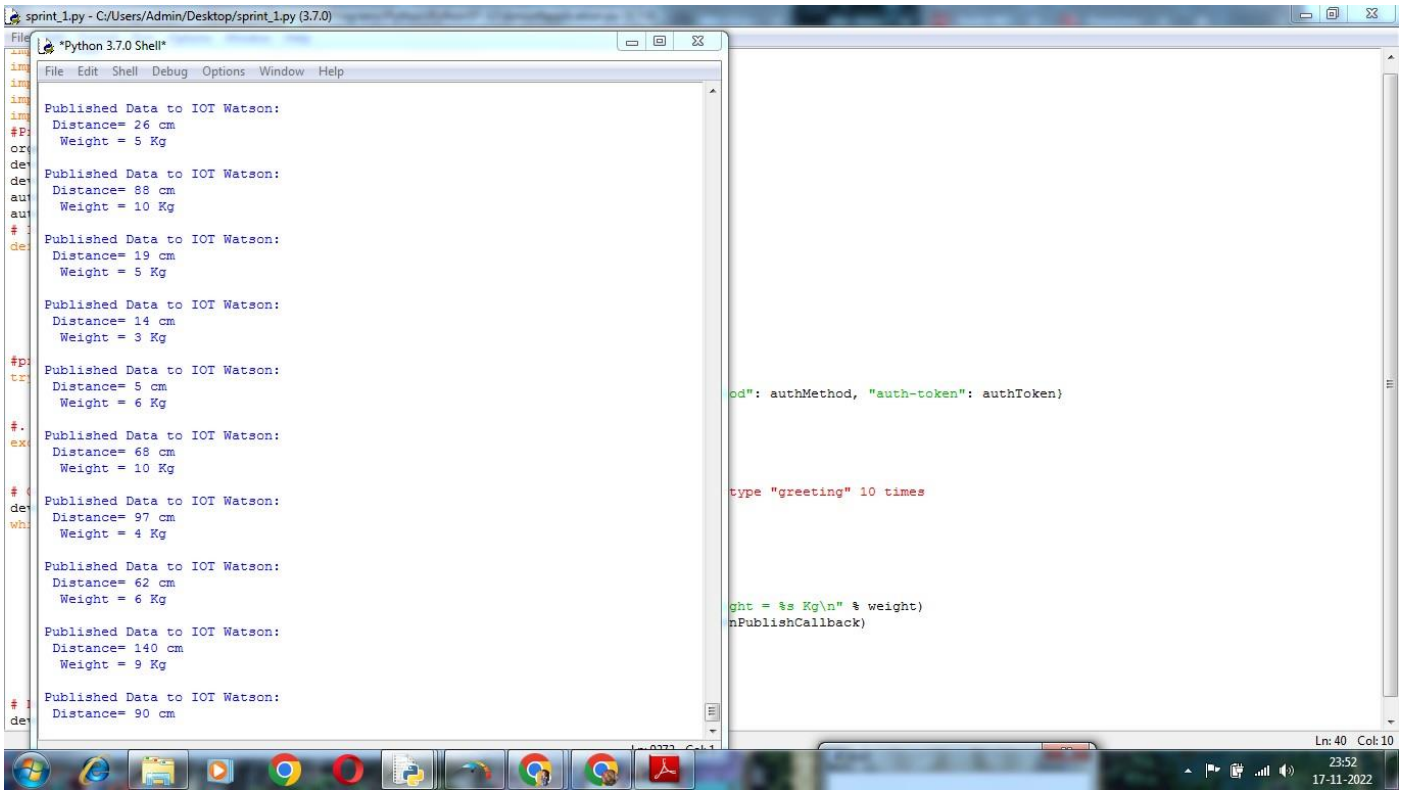
TEAM ID	PNT2022TMID50056
PROJECT NAME	IOT based Smart Waste Management System in metropolitan cities

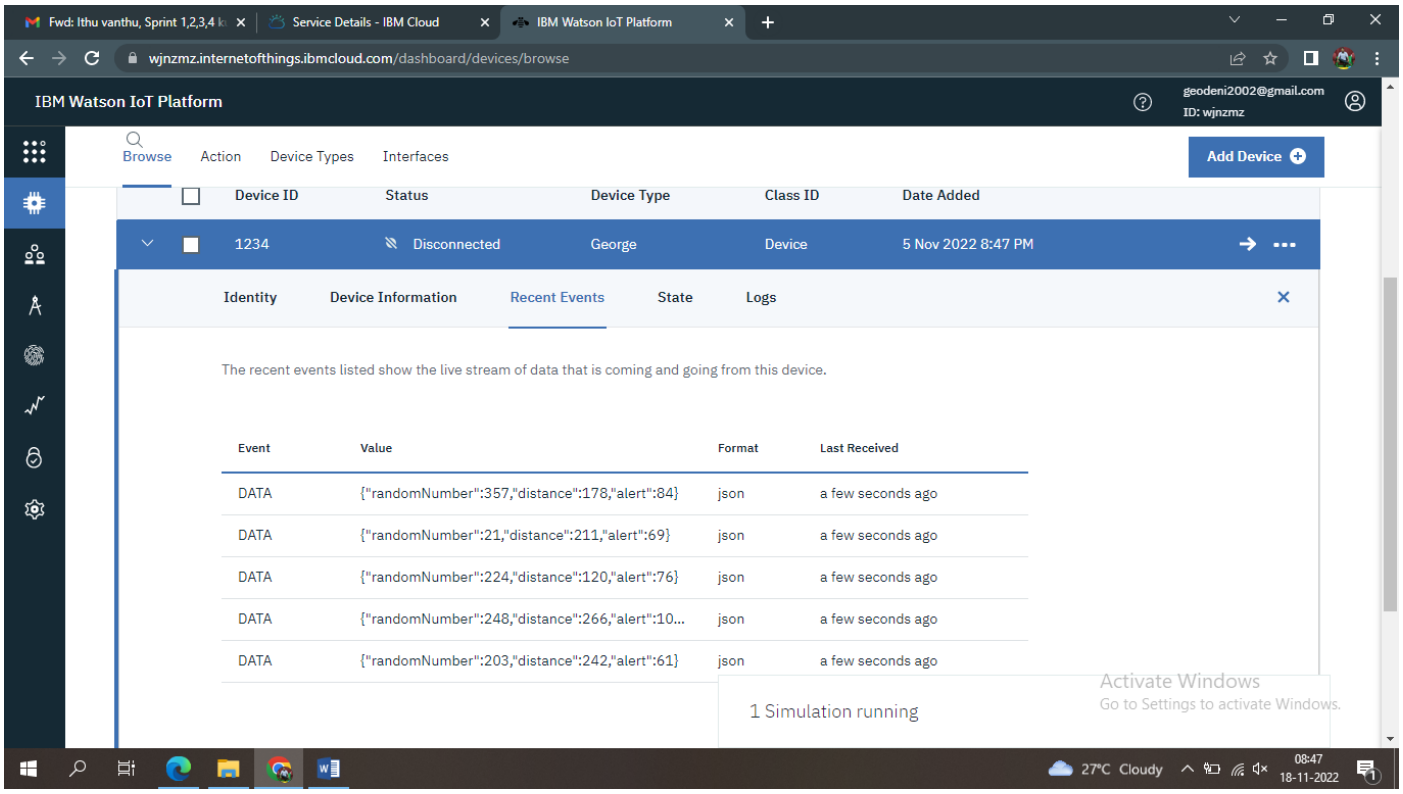
Sprint 1

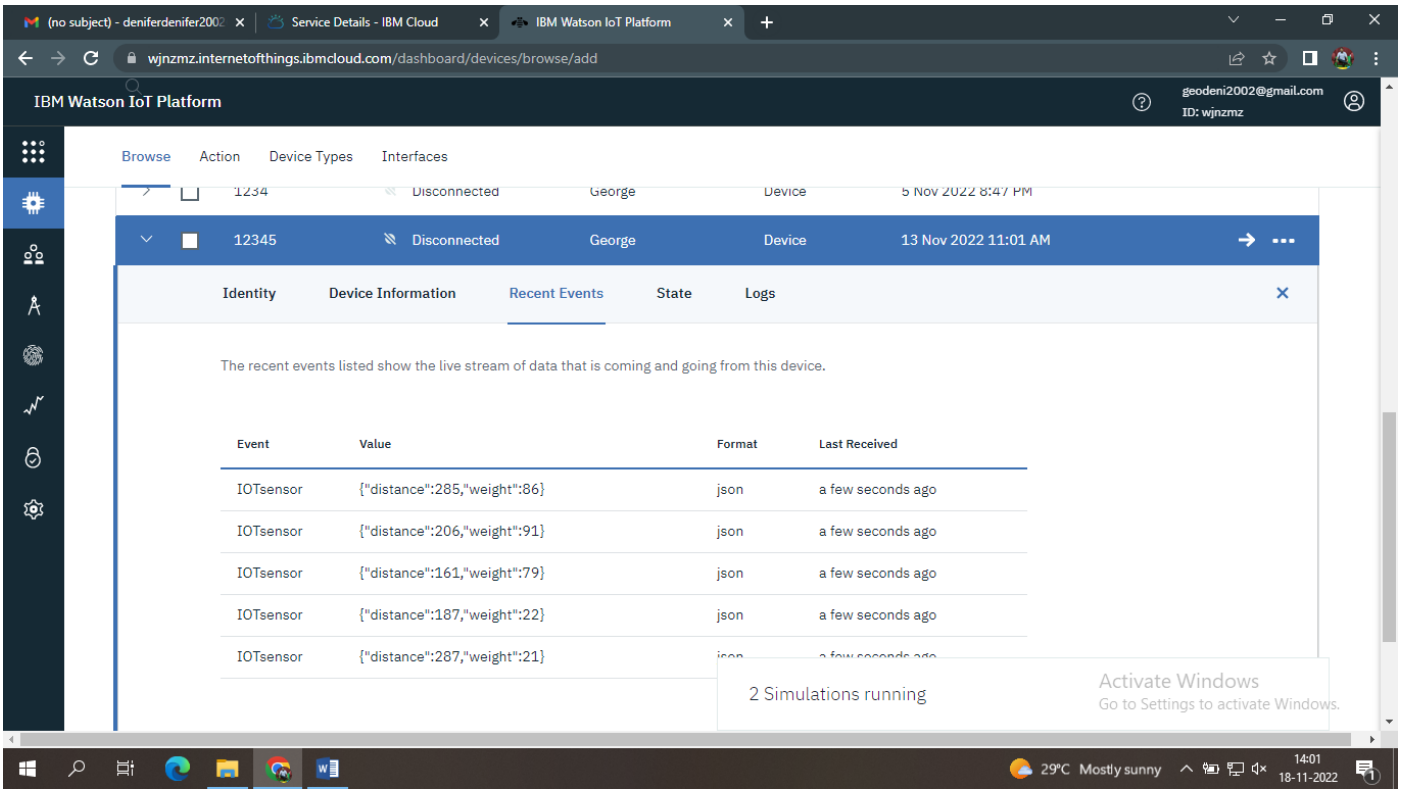
```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "wjnzmz"'
deviceType = "sprint_1"
deviceId = "12345678"
authMethod = "token"
authToken = "12345678"
# Initialize GPIO
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="smart bin opened":
        print ("The Smart Bin is Open now")
    else :
        print ("The Smart Bin is Close now")
#print(cmd)
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()
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10
times
deviceCli.connect()
while True:
       distance=random.randint(0,200)
       weight=random.randint(0,10)
       data = { 'distance' : distance, 'weight': weight }
       def myOnPublishCallback():
          print ("Published Data to IOT Watson: \n Distance= %s cm\n" % distance, " Weight = %s Kg\n" %
weight)
       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
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```






Fwd: Ithu vanthu, Sprint 1,2,3,4
Service Details - IBM Cloud
IBM Watson IoT Platform
wjnzmz.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
geodeni2002@gmail.com
ID: wjnzmz
Browse
Action
Device Types
Interfaces
Add Device
Device ID
Status
Device Type
Class ID
Date Added
1234
Disconnected
George
Device
5 Nov 2022 8:47 PM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
DATA
{"randomNumber":357,"distance":178,"alert":84}
json
a few seconds ago
DATA
{"randomNumber":21,"distance":211,"alert":69}
json
a few seconds ago
DATA
{"randomNumber":224,"distance":120,"alert":76}
json
a few seconds ago
DATA
{"randomNumber":248,"distance":266,"alert":10...
json
a few seconds ago
DATA
{"randomNumber":203,"distance":242,"alert":61}
json
a few seconds ago
1 Simulation running
Activate Windows
Go to Settings to activate Windows.
27°C Cloudy
08:47
18-11-2022


(no subject) - deniferdenifer200
Service Details - IBM Cloud
IBM Watson IoT Platform
wjnzmz.internetofthings.ibmcloud.com/dashboard/devices/browse/add
IBM Watson IoT Platform
geodeni2002@gmail.com
ID: wjnzmz
Browse
Action
Device Types
Interfaces
12345
Disconnected
George
Device
13 Nov 2022 11:01 AM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
IOTsensor
{"distance":285,"weight":86}
json
a few seconds ago
IOTsensor
{"distance":206,"weight":91}
json
a few seconds ago
IOTsensor
{"distance":161,"weight":79}
json
a few seconds ago
IOTsensor
{"distance":187,"weight":22}
json
a few seconds ago
IOTsensor
{"distance":287,"weight":21}
2 Simulations running
Activate Windows
Go to Settings to activate Windows.
29°C Mostly sunny
14:01
18-11-2022