Team ID: PNT2022TMID11820

Project Development Phase Sprint – 3

Program:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
organization="pyflre"
deviceType="hazard"
deviceId="231099"
authMethod="token"
authToken="zHP+8fjUb*HmxvADd8"
def myCommandCallback(cmd):
print("Command received:%s" % cmd.data['command'])
status=cmd.data['command']
if status=="motoron":
print("Motor is ON")
else:
print("Motor is 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()
```

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```
while True:
temp=random.randint(0,100)
noise=random.randint(0,100)
Gas=random.randint(0,100)
radn=random.randint(0,100)
data={'Temperature':temp,'Noise':noise,'Gas_leakage':Gas,'Radiation':radn}
def myOnPublishCallback():
print("Published Temperature=%s C" %temp,"Noise:%s db"
%noise,"Gas_leakage:%s J/Kg" %Gas,"Radiation:%s rad "%radn,"to IBM
Watson")
success=deviceCli.publishEvent("IoTSensor","json",data,qos=0,on_publish=my
OnPublishCallback)
if not success:
print("Not connected to IoTF")
time.sleep(1)
deviceCli.commandCallback=myCommandCallback
deviceCli.disconnect()
```

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Output:

```
### File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0 (v3.7.0 (v3.7.0 vil.56co008), Jun 27 2018, 04:55:51) [MSC v.1914 64 bit (AMD64)] on vin32

Tips "copyright", "credits" or "license()" for more information.

**REXTART: C: [Viewer/New/AppCate/Local/Programs/Python/Python37/improject/hazard.py

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