Sprint - 1

Team ID: PNT2022TMID22149

Python Code:

```
#Sprint - 1
# Team ID: PNT2022TMID22149
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "lcft5g"
deviceType = "Final"
deviceId = "Hello"
authMethod = "token"
authToken = "8300113450"
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:
    #Get Sensor Data from DHT11
    temp=random.randint(0,100)
    Humid=random.randint(0,100)
    Gas=random.randint(0,100)
    data = { 'temp' : temp, 'Humid': Humid,'Gas':gas }
    #print data
    def myOnPublishCallback():
      print ("Published Temperature = %s C" % temp, "Humidity = %s %%" %
Humid, "Gas Concentration = %s"%Gas"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
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

Output:

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                                                                                                               authMethod = "token"
authToken = "8300113450"
                                                                                                               # Initialize GPIO
                                                                                                                       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 e deviceCli.connect()
                                                                                                               while True:
#Get Sensor Data from DHT11
                                                                                                                       temp=random.randint(0,100)
Humid=random.randint(0,100)
Gas=random.randint(0,100)
                                                                                                                    data = { 'temp' : temp, 'Humid': Humid, 'Gas':Gas }
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def myOnPublishCallback():
    print ("Fublished Tempe
                                                                                                                                                    erature = %s C" % temp, "Humidity = %s %%" % H
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print("Not connected to IoTF")
time.sleep(10)
                                                                                                                      deviceCli.commandCallback = myCommandCallback
                                                                                                              # Disconnect the device and application from the cloud deviceCli.disconnect()
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```