PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

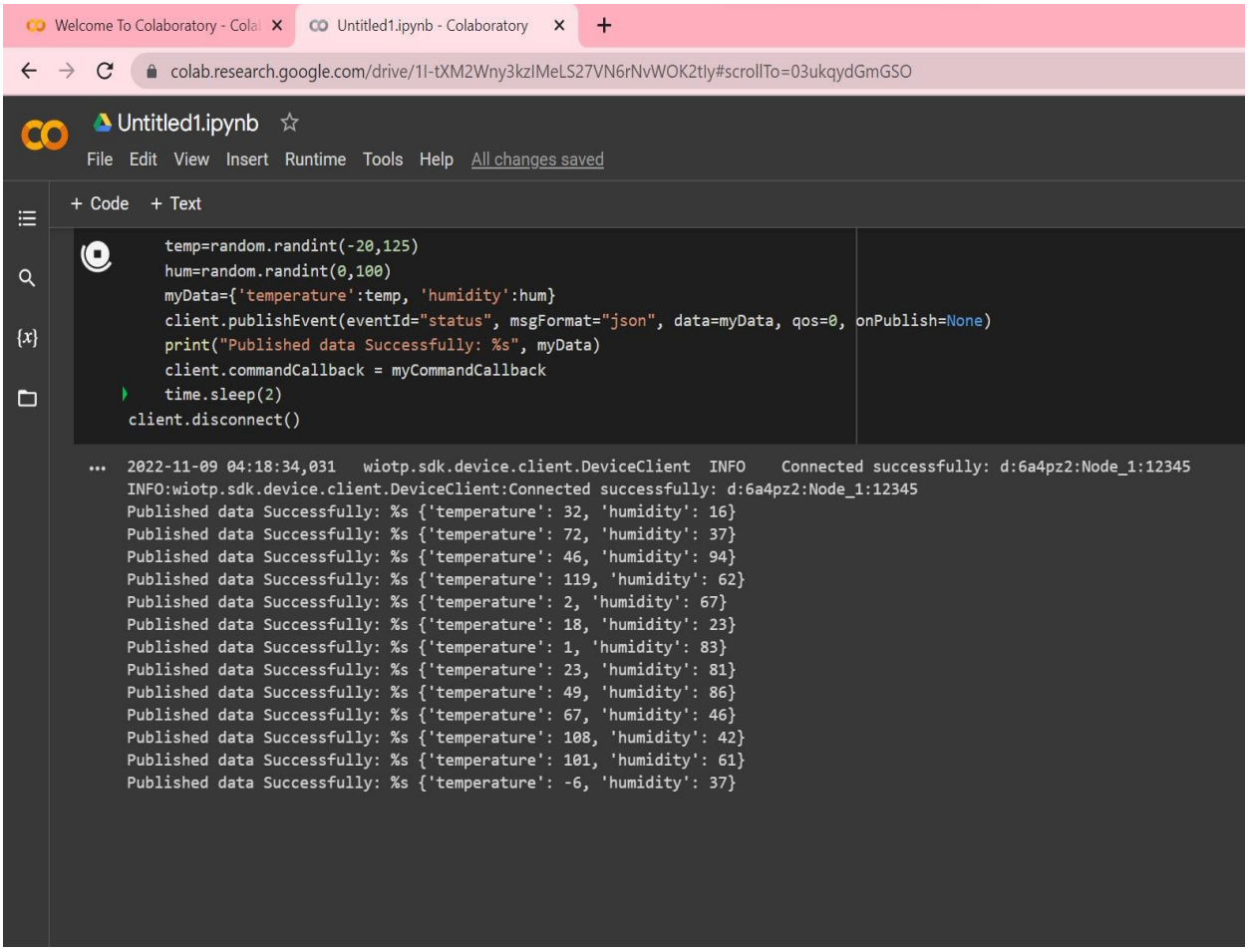
Date	11 November 2022
Team ID	PNT2022TMID30897
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEMS

CODE:

```
#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = {

"identity": {

"orgId": " 6a4pz2",

"typeId": "Node_1", "deviceId":"12345"

},
"auth": {

"token": "12345678"
}
}
Def myCommandCallback(cmd):
```

```
print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])

m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)

client.connect()

while True:

 temp=random.randint(-20,125)

hum=random.randint(0,100)

myData={'temperature':temp, 'humidity':hum}

client.publishEvent(eventId="status", msgFormat="json",
data=myData, qos=0, onPublish=None)

print("Published data Successfully: %s", myData)

client.commandCallback = myCommandCallback

 time.sleep(2)

Client.disconnect()
```

OUTPUT:


Welcome To Colaboratory - Cola
Untitled1.ipynb - Colaboratory
colab.research.google.com/drive/1I-tXM2Wny3kzIMeLS27VN6rNvWOK2tIy#scrollTo=03ukqydGmGSO
Untitled1.ipynb
File Edit View Insert Runtime Tools Help All changes saved
+ Code + Text
temp=random.randint(-20,125)
hum=random.randint(0,100)
myData={'temperature':temp, 'humidity':hum}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
print("Published data Successfully: %s", myData)
client.commandCallback = myCommandCallback
time.sleep(2)
client.disconnect()
2022-11-09 04:18:34,031 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:6a4pz2:Node_1:12345
INFO:wiotp.sdk.device.client.DeviceClient:Connected successfully: d:6a4pz2:Node_1:12345
Published data Successfully: %s {'temperature': 32, 'humidity': 16}
Published data Successfully: %s {'temperature': 72, 'humidity': 37}
Published data Successfully: %s {'temperature': 46, 'humidity': 94}
Published data Successfully: %s {'temperature': 119, 'humidity': 62}
Published data Successfully: %s {'temperature': 2, 'humidity': 67}
Published data Successfully: %s {'temperature': 18, 'humidity': 23}
Published data Successfully: %s {'temperature': 1, 'humidity': 83}
Published data Successfully: %s {'temperature': 23, 'humidity': 81}
Published data Successfully: %s {'temperature': 49, 'humidity': 86}
Published data Successfully: %s {'temperature': 67, 'humidity': 46}
Published data Successfully: %s {'temperature': 108, 'humidity': 42}
Published data Successfully: %s {'temperature': 101, 'humidity': 61}
Published data Successfully: %s {'temperature': -6, 'humidity': 37}

IBM CLOUD OUTPUT: