SPRINT-2

DATE	17 NOVEMBER 2022
TEAM ID	PNT2022TMID40922
PROJECT NAME	HAZARDOUS AREA MONITORING FOR
	INDUSTRIAL PLANT POWERED BY IOT

PYTHON CODE:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {"identity":
"orgId": "aqudbz",
"typeId": "NodeMCU",
"deviceId":"12345" },
"auth": { "token": "EON8Q6-UN@GTJ&zH-Q" }
}
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:

```
Code.py - C:/Users/User/AppData/Local/Programs/Python/Python37-32/Code.py (3.7.0)
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Fibalished data Successfully: %s ('temperature': 98,

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Fibalished data Successfully: %s ('temperature': 12,

Fibalished data Successfull): %s ('temperature': 12,

Fibalished data Successfull): %s ('temperature':
     File Edit Format Run Options Window Help
      #IBM Watson IOT Platform
#pip install wiotp-sdk
                                                wiotp.sdk.device
                                             time
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                 "orgId": "aqudbz",
"typeId": "NodeMCU",
"deviceId": "12345" ),
"auth": { "token": "EON8Q6-UN8GTJ&zH-Q" }
          of myCommandCallback(cmd):
print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
m=cmd.data['command']
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temperature': 121,
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      client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
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Published data Successfully: %s ('temperature': 96, 'humidity': 85)
Published data Successfully: %s ('temperature': 120, 'humidity': 87)
Published data Successfully: %s ('temperature': 120, 'humidity': 87)
Published data Successfully: %s ('temperature': 110, 'humidity': 96)
Published data Successfully: %s ('temperature': 111, 'humidity': 96)
Published data Successfully: %s ('temperature': 111, 'humidity': 87)
Published data Successfully: %s ('temperature': 122, 'humidity': 72)
Published data Successfully: %s ('temperature': 122, 'humidity': 72)
Published data Successfully: %s ('temperature': 124, 'humidity': 72)
Published data Successfully: %s ('temperature': 73, 'humidity': 6)
Published data Successfully: %s ('temperature': 77, 'humidity': 13)
Published data Successfully: %s ('temperature': 77, 'humidity': 94)
Published data Successfully: %s ('temperature': 77, 'humidity': 94)
Published data Successfully: %s ('temperature': 22, 'humidity': 94)
Published data Successfully: %s ('temperature': 51, 'humidity': 94)
Published data Successfully: %s ('temperature': 51, 'humidity': 32)
Published data Successfully: %s ('temperature': 51, 'humidity': 75)
      client.connect()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'humidity':
            temp=random.randint(-20,125)
          temp=random.randint(-20,125)
myData=('temperature':temp, 'humidity':hum)
client.publishPven(eventId="status", msgFormat="json", data=myData, qos=0,
onFublish=Mone)
print("Published data Successfully: %s", myData)
client.commandCallback = myCommandCallback
            time.sleep(2)
          client.disconnect()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ln: 30 Col: 0
```