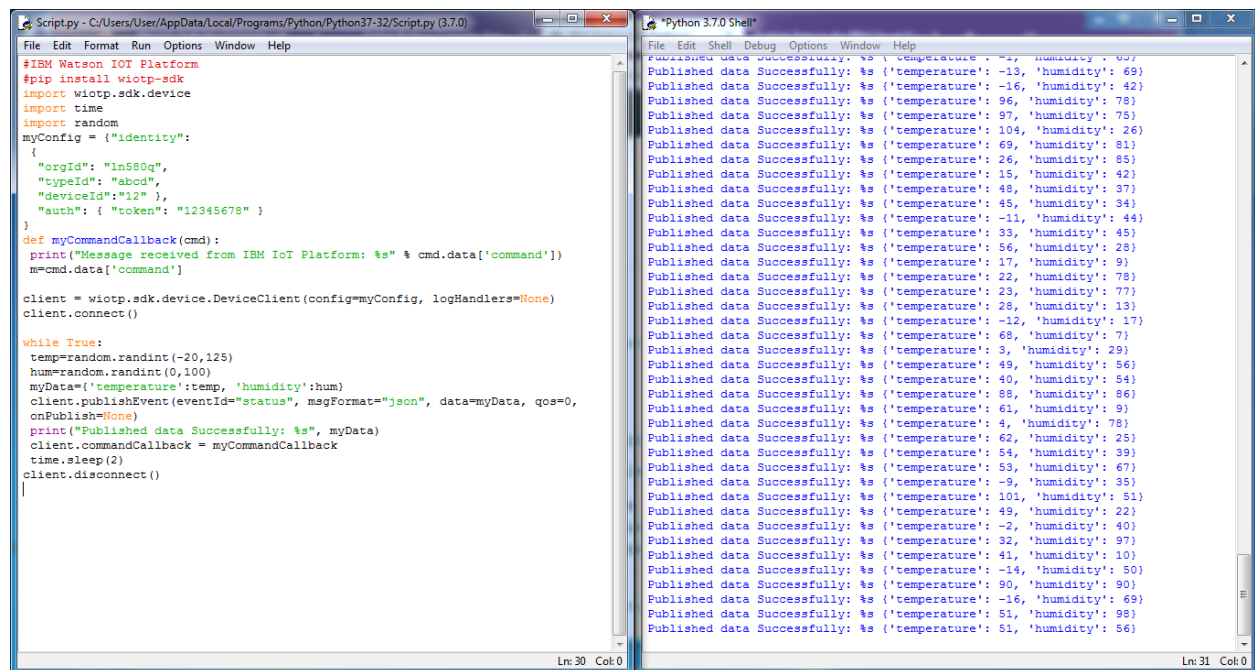


# PUBLISHING DATA TO IBM CLOUD

DATE	16 NOVEMBER 2022
TEAM ID	PNT2022TMID40881
PROJECT NAME	INDUSTRY SPECIFIC INTELLIGENT FIRE MANAGEMENT
MAXIMUM MARKS	04 MARKS



The image shows a side-by-side comparison of a Python script and its execution output. The left window, titled 'Script.py - C:/Users/User/AppData/Local/Programs/Python/Python37-32/Script.py (3.7.0)', displays the source code. The right window, titled 'Python 3.7.0 Shell', shows the output of the script's execution.

**Script.py Code:**

```
#IBM Watson IoT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random

myConfig = {"identity":
{
    "orgId": "1n580q",
    "typeId": "abod",
    "deviceId": "12",
    "auth": { "token": "12345678" }
}
}

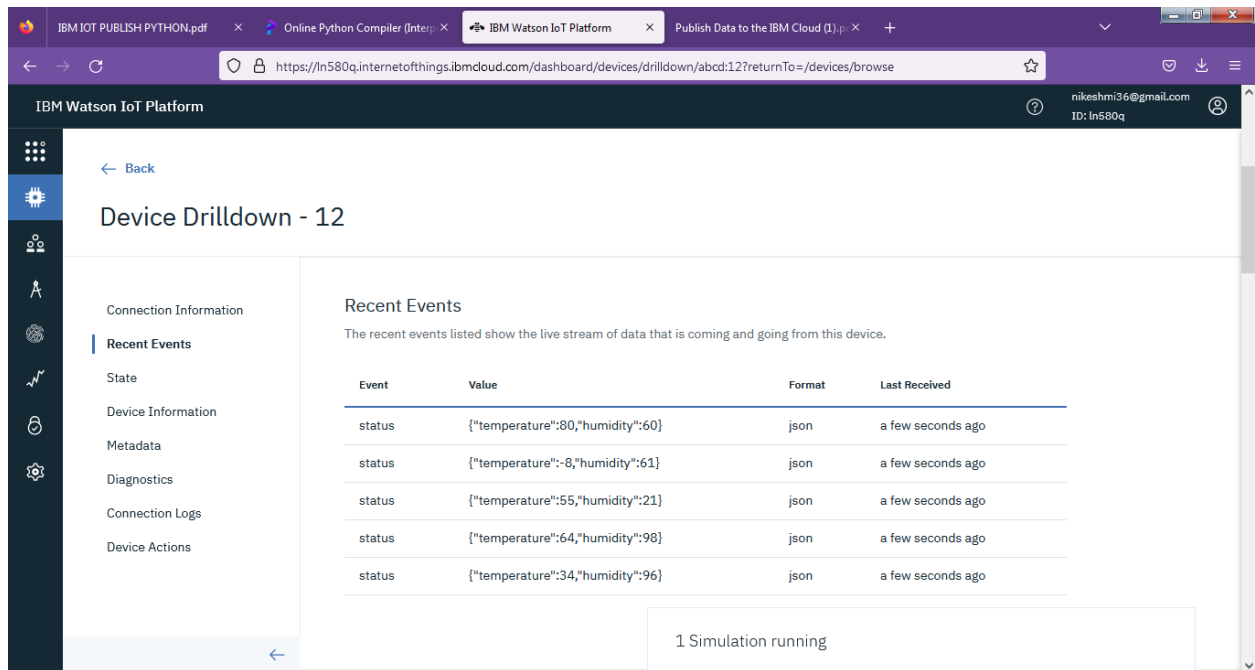
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

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()
```

**Python 3.7.0 Shell Output:**

```
Published data Successfully: %s ('temperature': -1, 'humidity': 65)
Published data Successfully: %s ('temperature': -13, 'humidity': 69)
Published data Successfully: %s ('temperature': -16, 'humidity': 42)
Published data Successfully: %s ('temperature': 96, 'humidity': 78)
Published data Successfully: %s ('temperature': 97, 'humidity': 75)
Published data Successfully: %s ('temperature': 104, 'humidity': 26)
Published data Successfully: %s ('temperature': 69, 'humidity': 81)
Published data Successfully: %s ('temperature': 26, 'humidity': 85)
Published data Successfully: %s ('temperature': 15, 'humidity': 42)
Published data Successfully: %s ('temperature': 48, 'humidity': 37)
Published data Successfully: %s ('temperature': 45, 'humidity': 34)
Published data Successfully: %s ('temperature': -11, 'humidity': 44)
Published data Successfully: %s ('temperature': 33, 'humidity': 45)
Published data Successfully: %s ('temperature': 56, 'humidity': 28)
Published data Successfully: %s ('temperature': 17, 'humidity': 9)
Published data Successfully: %s ('temperature': 22, 'humidity': 78)
Published data Successfully: %s ('temperature': 23, 'humidity': 77)
Published data Successfully: %s ('temperature': 28, 'humidity': 13)
Published data Successfully: %s ('temperature': -12, 'humidity': 17)
Published data Successfully: %s ('temperature': 68, 'humidity': 7)
Published data Successfully: %s ('temperature': 3, 'humidity': 29)
Published data Successfully: %s ('temperature': 49, 'humidity': 56)
Published data Successfully: %s ('temperature': 40, 'humidity': 54)
Published data Successfully: %s ('temperature': 88, 'humidity': 86)
Published data Successfully: %s ('temperature': 61, 'humidity': 9)
Published data Successfully: %s ('temperature': 4, 'humidity': 78)
Published data Successfully: %s ('temperature': 62, 'humidity': 25)
Published data Successfully: %s ('temperature': 54, 'humidity': 39)
Published data Successfully: %s ('temperature': 53, 'humidity': 67)
Published data Successfully: %s ('temperature': -9, 'humidity': 35)
Published data Successfully: %s ('temperature': 101, 'humidity': 51)
Published data Successfully: %s ('temperature': 49, 'humidity': 22)
Published data Successfully: %s ('temperature': -2, 'humidity': 40)
Published data Successfully: %s ('temperature': 32, 'humidity': 97)
Published data Successfully: %s ('temperature': 41, 'humidity': 10)
Published data Successfully: %s ('temperature': -14, 'humidity': 50)
Published data Successfully: %s ('temperature': 90, 'humidity': 90)
Published data Successfully: %s ('temperature': -16, 'humidity': 69)
Published data Successfully: %s ('temperature': 51, 'humidity': 98)
Published data Successfully: %s ('temperature': 51, 'humidity': 56)
```



## PROGRAM

```
#IBM Watson IOT Platform
```

```
#pip install wiotp-sdk
```

```
import wiotp.sdk.device
```

```
import time
```

```
import random
```

```
myConfig = {"identity":
```

```
{
```

```
  "orgId": "ln580q",
```

```
  "typeId": "abcd",
```

```
  "deviceId": "12" },
```

```
  "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()
```