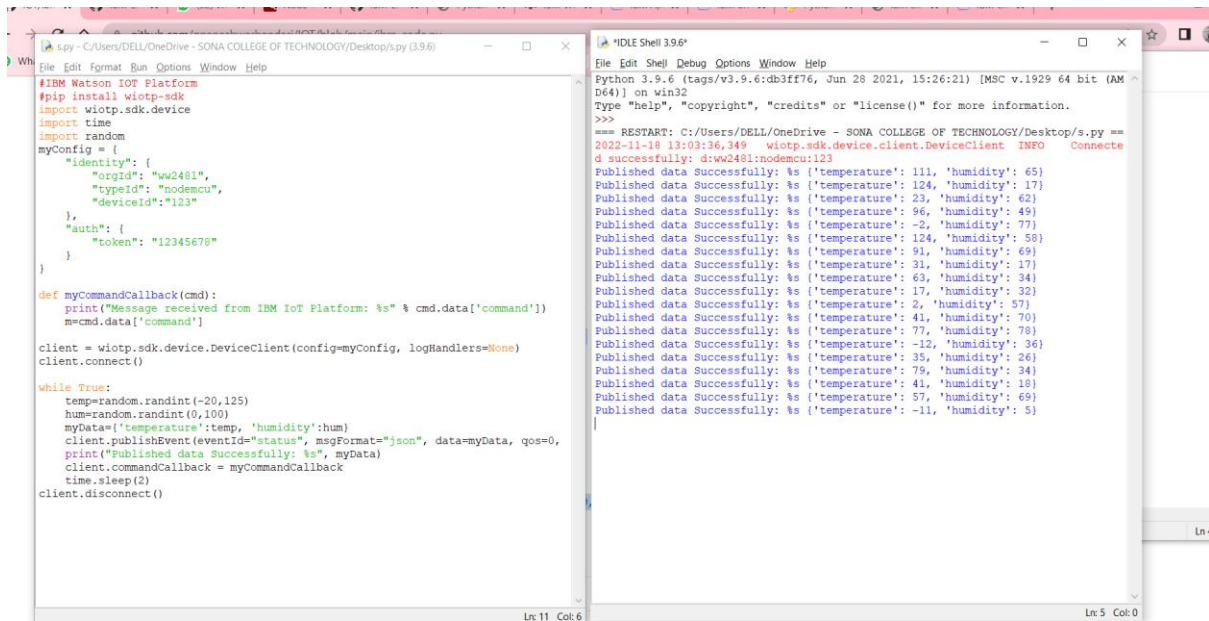


DEVELOP A PYTHON SCRIPT

Team id	PNT2022TMID19089
Project name	REAL TIME RIVER QUALITY MONITORING AND CONTROL SYSTEM

PROGRAM



The image shows a Python script in an IDE window and its execution output in a terminal window.

Python Script (s.py):

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

myConfig = {
    "identity": {
        "orgId": "ww2481",
        "typeId": "nodemcu",
        "deviceId": "123"
    },
    "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,
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

Terminal Output (IDLE Shell 3.9.6):

```
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/DELL/OneDrive - SONA COLLEGE OF TECHNOLOGY/Desktop/s.py ==
d successfully: d:ww2481:nodemcu:123
Published data Successfully: %s ('temperature': 111, 'humidity': 65)
Published data Successfully: %s ('temperature': 124, 'humidity': 17)
Published data Successfully: %s ('temperature': 23, 'humidity': 62)
Published data Successfully: %s ('temperature': 96, 'humidity': 49)
Published data Successfully: %s ('temperature': -2, 'humidity': 77)
Published data Successfully: %s ('temperature': 124, 'humidity': 58)
Published data Successfully: %s ('temperature': 91, 'humidity': 69)
Published data Successfully: %s ('temperature': 31, 'humidity': 17)
Published data Successfully: %s ('temperature': 63, 'humidity': 34)
Published data Successfully: %s ('temperature': 17, 'humidity': 32)
Published data Successfully: %s ('temperature': 2, 'humidity': 57)
Published data Successfully: %s ('temperature': 41, 'humidity': 70)
Published data Successfully: %s ('temperature': 77, 'humidity': 78)
Published data Successfully: %s ('temperature': -12, 'humidity': 36)
Published data Successfully: %s ('temperature': 35, 'humidity': 26)
Published data Successfully: %s ('temperature': 79, 'humidity': 34)
Published data Successfully: %s ('temperature': 41, 'humidity': 18)
Published data Successfully: %s ('temperature': 57, 'humidity': 69)
Published data Successfully: %s ('temperature': -11, 'humidity': 5)
```