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| Date | 16 OCTOBER 2022 |
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| Team Members | SURESH S MATHAN KUMAR T SASI KUMAR K |
| Project Name | REAL TIME RIVER WATER QUALITY MONITERING AND CONTROL SYSTEM |

The screenshot shows a Windows desktop environment. On the left, a Command Prompt window titled "Command Prompt - iot1.py" displays the output of running a Python script. The output shows a successful connection to the IoT service and the publication of multiple data points (temperature and humidity) in JSON format. On the right, a Sublime Text editor window titled "Sublime Text (UNREGISTERED)" shows the source code of the 'iot1.py' script. The code imports the 'wiotp' module and uses the 'DeviceClient' to publish data to a cloud service. The code is as follows:

```

import wiotp
from wiotp.sdk.device.client import DeviceClient

def publish_data():
    data = {
        'temperature': 119,
        'humidity': 59
    }
    client = DeviceClient(
        platform='python',
        url='https://iot.hackclub.com',
        auth='myConfig',
        log_handlers=None
    )
    client.publish('hum', data)

if __name__ == '__main__':
    publish_data()

```

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Add Device

| ID | Status | Type | Device | Last Seen |
|--------|--------------|----------------|--------|----------------------|
| 12345 | Disconnected | testDeviceType | Device | Oct 22, 2022 7:47 PM |
| 123456 | Disconnected | mydevice1 | Device | Nov 19, 2022 9:30 PM |

Identity Device Information Recent Events State Logs

Showing Raw Data | No Interfaces Available

| Property | Value | Type | Event | Last Received |
|-------------|-------|--------|--------|-------------------|
| temperature | 12 | Number | status | a few seconds ago |
| humidity | 26 | Number | status | a few seconds ago |

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1 Simulation running

Node-RED

Flow 1

input

output

hello world

msg payload

IBM IoT

connected

debug

```
{ "temperature": 53, "humidity": 52 }  
11/20/2022, 10:23:49 AM node: 954728b566acb8b2  
iot-2/type/mydevice1/id/123456/ev/status/fmt/json :  
msg.payload : Object  
> { "temperature": 82, "humidity": 4 }  
11/20/2022, 10:23:51 AM node: 954728b566acb8b2  
iot-2/type/mydevice1/id/123456/ev/status/fmt/json :  
msg.payload : Object  
> { "temperature": 110, "humidity": 40 }  
11/20/2022, 10:23:53 AM node: 954728b566acb8b2  
iot-2/type/mydevice1/id/123456/ev/status/fmt/json :  
msg.payload : Object  
> { "temperature": -4, "humidity": 85 }  
11/20/2022, 10:23:55 AM node: 954728b566acb8b2  
iot-2/type/mydevice1/id/123456/ev/status/fmt/json :  
msg.payload : Object  
> { "temperature": -11, "humidity": 39 }  
11/20/2022, 10:23:57 AM node: 954728b566acb8b2  
iot-2/type/mydevice1/id/123456/ev/status/fmt/json :  
msg.payload : Object  
> { "temperature": 6, "humidity": 90 }
```


