

# Assignment-3

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Q) Develop a code to upload the water tank level and light intensity values to the IBM IoT platform and visualize them in the web application.

Python code:

```
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "v34dpq",
        "typeId": "18BLC1057",
        "deviceId": "123456"
    },
    "auth": {
        "token": "123456789"
    }
}

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

while True:
    intensity=random.randint(0,125)
    level=random.randint(0,100)
    myData={'Light Intensity':intensity, 'Water Level':level}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
```

```
time.sleep(2)
```

```
client.disconnect()
```

## OUTPUT:

### Python Shell:

```
IDLE Shell 3.9.5
File Edit Shell Debug Options Window Help
Published data Successfully: %sTraceback (most recent call last):
  File "C:/Users/edity/AppData/Local/Programs/Python/Python39/Assignment 3.py", line 22, in <module>
    print("Published data Successfully: %s", myData)
KeyboardInterrupt
>>>
= RESTART: C:/Users/edity/AppData/Local/Programs/Python/Python39/Assignment 3.py
2021-07-18 20:24:03.370 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:v34dpq:18BLC1057:123456
Published data Successfully: %s ('Light Intensity': 113, 'Water Level': 41)
Published data Successfully: %s ('Light Intensity': 50, 'Water Level': 74)
Published data Successfully: %s ('Light Intensity': 54, 'Water Level': 78)
Published data Successfully: %s ('Light Intensity': 4, 'Water Level': 66)
Published data Successfully: %s ('Light Intensity': 46, 'Water Level': 94)
Published data Successfully: %s ('Light Intensity': 29, 'Water Level': 0)
Published data Successfully: %s ('Light Intensity': 39, 'Water Level': 0)
Published data Successfully: %s ('Light Intensity': 47, 'Water Level': 76)
Published data Successfully: %s ('Light Intensity': 50, 'Water Level': 55)
Published data Successfully: %s ('Light Intensity': 49, 'Water Level': 38)
Published data Successfully: %s ('Light Intensity': 74, 'Water Level': 75)
Published data Successfully: %s ('Light Intensity': 84, 'Water Level': 58)
Published data Successfully: %s ('Light Intensity': 100, 'Water Level': 31)
Published data Successfully: %s ('Light Intensity': 31, 'Water Level': 3)
Published data Successfully: %s ('Light Intensity': 81, 'Water Level': 45)
Published data Successfully: %s ('Light Intensity': 110, 'Water Level': 83)
Published data Successfully: %s ('Light Intensity': 87, 'Water Level': 78)
Published data Successfully: %s ('Light Intensity': 104, 'Water Level': 60)
Published data Successfully: %s ('Light Intensity': 50, 'Water Level': 57)
Published data Successfully: %s ('Light Intensity': 101, 'Water Level': 42)
Published data Successfully: %s ('Light Intensity': 111, 'Water Level': 7)
Published data Successfully: %s ('Light Intensity': 124, 'Water Level': 72)
Published data Successfully: %s ('Light Intensity': 94, 'Water Level': 65)
Published data Successfully: %s ('Light Intensity': 10, 'Water Level': 59)
Published data Successfully: %s ('Light Intensity': 106, 'Water Level': 74)
Published data Successfully: %s ('Light Intensity': 110, 'Water Level': 81)
Published data Successfully: %s ('Light Intensity': 55, 'Water Level': 61)
Published data Successfully: %s ('Light Intensity': 105, 'Water Level': 97)
Published data Successfully: %s ('Light Intensity': 79, 'Water Level': 6)
Published data Successfully: %s ('Light Intensity': 35, 'Water Level': 42)
Published data Successfully: %s ('Light Intensity': 38, 'Water Level': 14)
Published data Successfully: %s ('Light Intensity': 56, 'Water Level': 35)
Published data Successfully: %s ('Light Intensity': 61, 'Water Level': 35)
Published data Successfully: %s ('Light Intensity': 83, 'Water Level': 75)
```

### IBM Devices:

Watson IoT Platform

editya.jaganath2018@vitstudent.ac.in  
ID: v34dpq

Browser Action Device Types Interfaces Add Device

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class	Firmware Version
12345	Disconnected	VTDDevice	Device	Jul 8, 2021 6:51 PM		editya.jaganath2018@vitstudent.ac.in		
123456	Connected	18BLC1057	Device	Jul 18, 2021 8:10 PM		editya.jaganath2018@vitstudent.ac.in		

Identity Device Information Recent Events State Logs

Device ID: 123456  
Device Type: 18BLC1057  
Date Added: Jul 18, 2021 8:10 PM  
Added By: editya.jaganath2018@vitstudent.ac.in  
Connection Status: Connected  
Connection Time: Jul 18, 2021 8:24 PM  
Client Address: 122.164.246.190 SecureToken

Items per page: 50 1-7 of 7 items 1 of 1 name 1

Property	Value	Type	Event	Last Received
Light Intensity	44	Number	status	a few seconds ago
Water Level	19	Number	status	a few seconds ago

Items per page: 50 1-2 of 2 items 1 of 1 page

Dashboard:

