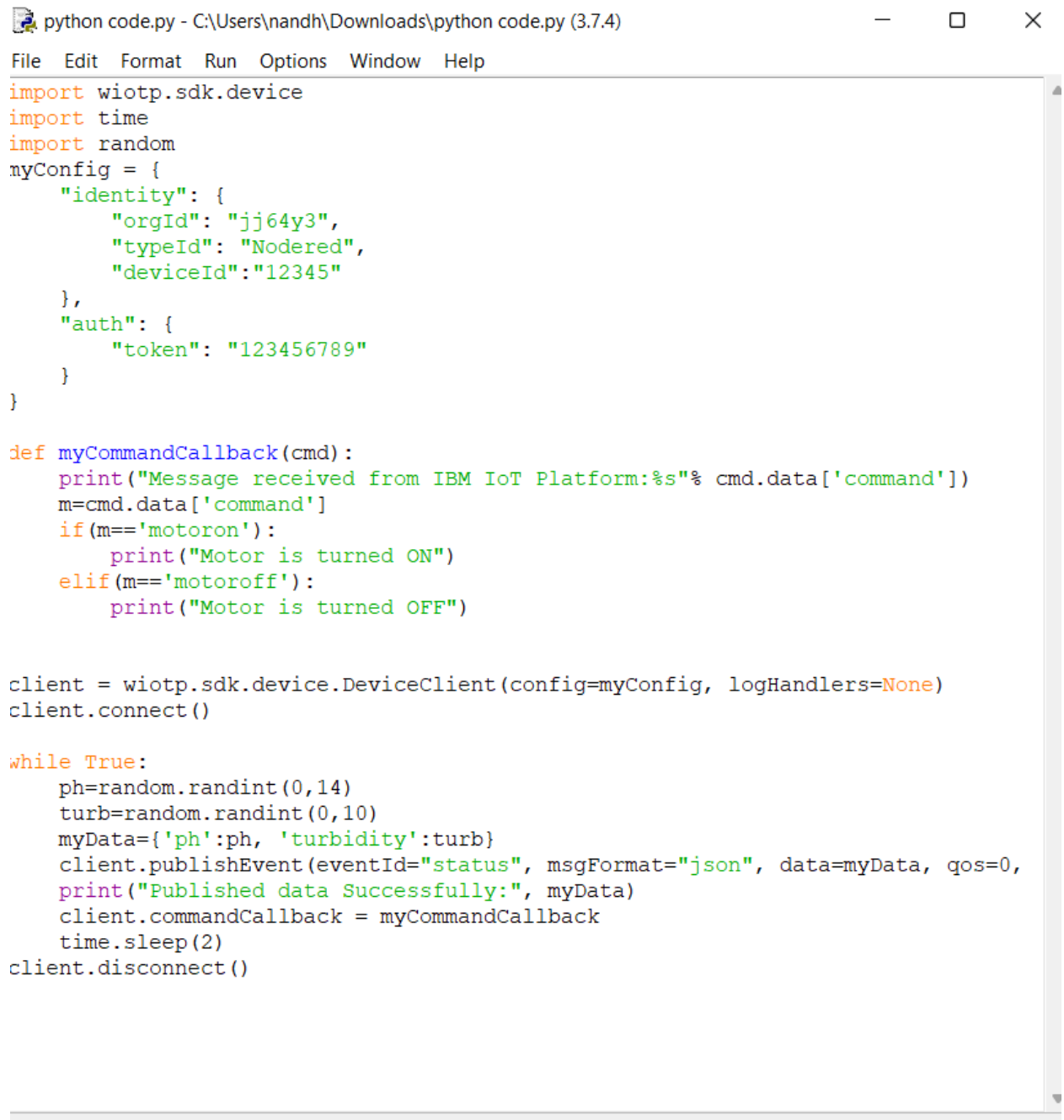


Develop The Python Script

TEAM ID	PNT2022TMID48692
PROJECT TITLE	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

Publish Data To The IBM Cloud



```
python code.py - C:\Users\nandh\Downloads\python code.py (3.7.4)
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "jj64y3",
        "typeId": "Nodered",
        "deviceId": "12345"
    },
    "auth": {
        "token": "123456789"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform:%s"% cmd.data['command'])
    m=cmd.data['command']
    if(m=='motoron'):
        print("Motor is turned ON")
    elif(m=='motoroff'):
        print("Motor is turned OFF")

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

while True:
    ph=random.randint(0,14)
    turb=random.randint(0,10)
    myData={'ph':ph, 'turbidity':turb}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
    print("Published data Successfully:", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

```

===== RESTART: C:\Users\nandh\Downloads\python code.py =====
2022-11-13 10:00:40,024   wiotp.sdk.device.client.DeviceClient INFO      Connecte
l successfully: d:jj64y3:Nodered:12345
Published data Successfully: {'ph': 9, 'turbidity': 2}
Published data Successfully: {'ph': 9, 'turbidity': 1}
Published data Successfully: {'ph': 9, 'turbidity': 0}
Published data Successfully: {'ph': 4, 'turbidity': 7}
Published data Successfully: {'ph': 3, 'turbidity': 5}
Published data Successfully: {'ph': 1, 'turbidity': 8}
Published data Successfully: {'ph': 9, 'turbidity': 3}
Published data Successfully: {'ph': 9, 'turbidity': 1}
Published data Successfully: {'ph': 12, 'turbidity': 9}
Published data Successfully: {'ph': 0, 'turbidity': 5}
Published data Successfully: {'ph': 12, 'turbidity': 8}
Published data Successfully: {'ph': 10, 'turbidity': 5}
Published data Successfully: {'ph': 9, 'turbidity': 9}
Published data Successfully: {'ph': 5, 'turbidity': 8}
Published data Successfully: {'ph': 4, 'turbidity': 10}
Published data Successfully: {'ph': 7, 'turbidity': 7}
Published data Successfully: {'ph': 12, 'turbidity': 6}
Published data Successfully: {'ph': 11, 'turbidity': 4}
Published data Successfully: {'ph': 9, 'turbidity': 0}
Published data Successfully: {'ph': 6, 'turbidity': 3}
Published data Successfully: {'ph': 12, 'turbidity': 2}

```

Watson IoT Platform					
? nandhakumargunasekar22@gmail.com ? ID: jj64y3					
Browse	Action	Device Types	Interfaces	Add Device +	
>	12345	Disconnected	NodeMCU	Device	Nov 8, 2022 11:39 AM
▼	12345	Connected	Nodered	Device	Nov 9, 2022 10:02 AM → ...
Identity	Device Information	Recent Events	State	Logs	×
The recent events listed show the live stream of data that is coming and going from this device.					
Event	Value	Format	Last Received		
status	{"ph":14,"turbidity":6}	json	a few seconds ago		
status	{"ph":2,"turbidity":5}	json	a few seconds ago		
status	{"ph":7,"turbidity":10}	json	a few seconds ago		
status	{"ph":8,"turbidity":0}	json	a few seconds ago		
status	{"ph":6,"turbidity":6}	json	a few seconds ago		

Code:

```

import wiotp.sdk.device

import time

import random

myConfig = {

```

```

"identity": {
    "orgId": "jj64y3",
    "typeId": "Nodered",
    "deviceId": "12345"
},
"auth": {
    "token": "123456789"
}
}

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client.connect()

while True:
    ph=random.randint(0,14)
    turb=random.randint(0,10)
    myData={'ph':ph, 'turbidity':turb}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully:", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()

```