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main.py Run Shell Clear

```
20- try:
21-     deviceOptions = {"org": organization, "type": deviceType, "id":
        deviceId, "auth-method": authMethod,
        "auth-token": authToken}
22-
23-     deviceCli = ibmiotf.device.Client(deviceOptions)
24- except Exception as e:
25-     print("caught exception connecting device: %s" % str(e))
26-     sys.exit()
27- deviceCli.connect()
28- while True:
29-     pH = random.randint(1, 14)
30-     turbidity = random.randint(1, 100)
31-     temperature = random.randint(0, 100)
32-     data = {'pH': pH, 'turbid': turbidity, 'temp': temperature}
33-     def SMS():
34-         message = Client.messages.create(
35-             body="ALERT!! THE WATER QUALITY IS DEGRADED",
36-             from_=keys.twilio_number,
37-             to = keys.target_number)
38-         print(message.body)
39-         if temperature>70 or pH<6 or turbidity>500:
40-             SMS()
41-     def mvOnPublishCallback():
```

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main.py Run Shell Clear

```
29 pH = random.randint(1, 14)
30 turbidity = random.randint(1, 100)
31 temperature = random.randint(0, 100)
32 data = {'pH': pH, 'turbid': turbidity, 'temp': temperature}
33
34 def SMS():
35     message = Client.messages.create(
36         body="ALERT!! THE WATER QUALITY IS DEGRADED",
37         from_=keys.twilio_number,
38         to = keys.target_number)
39     print(message.body)
40     if temperature>70 or pH<6 or turbidity>500:
41         SMS()
42     def myOnPublishCallback():
43         print("Published pH= %s" % pH, "Turbidity:%s" % turbidity,
44             "Temperature:%s" % temperature)
45         success = deviceCli.publishEvent("demo", "json", data, qos=0,
46             on_publish=myOnPublishCallback)
47     if not success:
48         print("Not Connected to ibmiot")
49         time.sleep(5)
50     deviceCli.commandCallback = myCommandCallback
51     deviceCli.disconnect()
```

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