SPRINT 2

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Python code:
import ibmiotf.device
import ibmiotf.application
import time import
random import sys
from twilio.rest import Client
import keys
Client = Client(keys.account_sid, keys.auth_token)
organization = "15rapi"
deviceType = "abc" deviceId
= "123" authMethod =
"token"
authToken = "12345678"
pH = random.randint(1, 14) turbidity
= random.randint(1, 1000)
temperature = random.randint(0, 100)
def myCommandCallback(cmd):
  print("Command Received: %s" % cmd.data['command'])
print(cmd)
      deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-
try:
method":
authMethod,
             "auth-token": authToken}
  deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
  print("caught exception connecting device: %s" % str(e))
sys.exit()
deviceCli.connect()
while True:
  pH = random.randint(1, 14)
turbidity = random.randint(1, 1000)
  temperature = random.randint(0, 100)
  data = {'pH': pH, 'turbid': turbidity, 'temp': temperature}
  def SMS():
                  message =
```

Client.messages.create(

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body="ALERT!! THE WATER QUALITY IS DEGRADED",
from_=keys.twilio_number,
                                    to = keys.target_number)
print(message.body)
  if temperature>70 or pH<6 or turbidity>500:
    SMS()
  def myOnPublishCallback():
                                 print("Published pH= %s" % pH, "Turbidity:%s"
% turbidity, "Temperature:%s" % temperature)
  success = deviceCli.publishEvent("demo", "json", data, qos=0,
on_publish=myOnPublishCallback)
if not success:
                print("Not
Connected to ibmiot")
time.sleep(5)
  deviceCli.commandCallback = myCommandCallback
deviceCli.disconnect()
#Twilio Account Credentials account_sid
='AC674a168fa92e54f2830009d96f9676dc' auth token
='a0127bca9a184493c92a4f6e5db2c91b'
twilio_number ='+15133275826' target_number
='+919361564622'
```