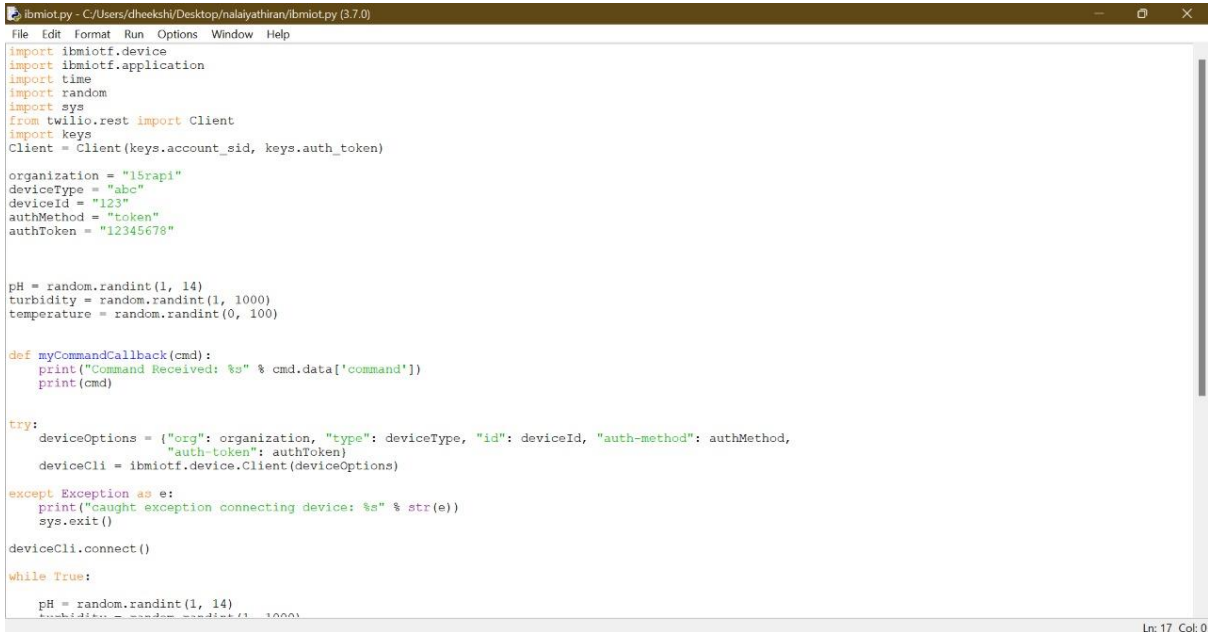


SPRINT 2

Python script to upload data in IBM cloud:



```
ibmiot.py - C:/Users/dheekshi/Desktop/nalayiathiran/ibmiot.py (3.7.0)
File Edit Format Run Options Window Help
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 = "15rap1"
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)

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-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)
```

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except Exception as e:
    print("caught exception connecting device: %s" % str(e))
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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(
            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'

```