Develop the Python Script Push Data to the Cloud

Team ID	PNT2022TMID06458
Project Name	Real-Time River Water Quality Monitoring and Control System

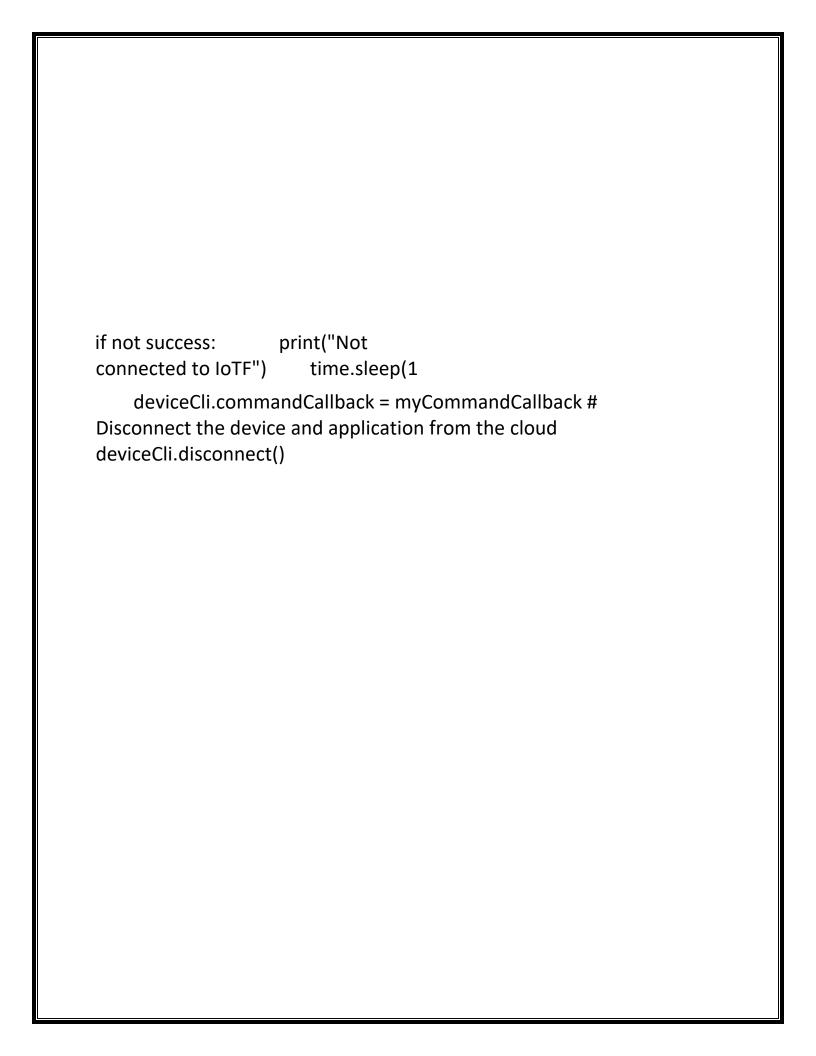
Python Code:

import time import sys import ibmiotf.application import ibmiotf.device import random

```
#Provide your IBM Watson Device Credentials
organization = "s2qhvm" deviceType =
"Laptop" deviceId = "0410" authMethod =
"token" authToken = "20011004"
```

Initialize GPIO

```
#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()
# Connect and send a datapoint "hello" with value "world" into the
cloud as an event of type "greeting" 10 times deviceCli.connect()
while True:
    #Get Sensor Data from DHT11
    PH=random.randint(90,110)
    Turbidity=random.randint(60,100)
    data = { 'PH' : PH, 'Turbidity': Turbidity }
    #print data
myOnPublishCallback():
      print ("Published PH value = %s C" % PH, "Turbidity= %s %%" %
Turbidity, "to IBM Watson")
                                success =
deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on publish=myOnPublishCallback)
```



Python 3.7.0 Shell - 0 X File Edit Shell Debug Options Window Help Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32 Type "copyright", "credits" or "license()" for more information. ======= RESTART: C:\Users\User\Downloads\ibmiotpublishsubscribe.py ======== Connected successfully: d:s2qhvm:Laptop:0 2022-11-14 18:38:30,936 ibmiotf.device.Client INFO 410 Published Temperature = 101 C Humidity = 84 % to IBM Watson Published Temperature = 108 C Humidity = 86 % to IBM Watson Published Temperature = 105 C Humidity = 73 % to IBM Watson Published Temperature = 110 C Humidity = 69 % to IBM Watson Published Temperature = 102 C Humidity = 88 % to IBM Watson Published Temperature = 100 C Humidity = 91 % to IBM Watson Published Temperature = 105 C Humidity = 89 % to IBM Watson Published Temperature = 106 C Humidity = 95 % to IBM Watson Published Temperature = 100 C Humidity = 79 % to IBM Watson Published Temperature = 92 C Humidity = 62 % to IBM Watson Published Temperature = 101 C Humidity = 90 % to IBM Watson Published Temperature = 91 C Humidity = 77 % to IBM Watson In: 14 Col: 0 g^R ∧ Φ) / Eng 638 PM 11/14/2022 Type here to search

