PROJECT DEVELOPMENT - DELIVERY OF SPRINT 2

Date	12 November 2022
Team ID	PNT2022TMID22571
Project	Real Time River Water Quality Monitoring and Control System

Develop a python script:

Coding:

```
import time

import sys

import ibmiotf.application

import ibmiotf.device



organization = "br1jua"

deviceType = "nandhini 123"

deviceId = "123"

authMethod = "token"

authToken = "nandhini123"

temp=60

pulse=70

oxygen= 30

lat =  17

lon = 18

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:
      #Get Sensor Data from DHT11
      data = {"d":{ 'temp' : temp, 'pulse': pulse ,'oxygen': oxygen,"lat":lat,"lon":lon}}
      #print data
      def myOnPublishCallback():
         print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % pulse, "to IBM Watson")
        success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
      if not success:
         print("Not connected to IoTF")
      time.sleep(1)
      deviceCli.commandCallback = myCommandCallback
deviceCli.disconnect()
```