DEVELOP THE PYTHON SCRIPT

Team ID	PNT2022TMID46761
Team Name	Real-Time River Water Quality Monitoring and Control System

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PROGRAM:
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
organization = "8egjb2"
deviceType = "monitoring"
deviceId = "monitoring123"
authMethod = "token"
authToken = "123456789"
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
 status=cmd.data['command']
 if status=="Alert message":
    print ("Alert ON")
  elif status == "Alert OFF":
    print ("Alert Message")
  else:
    print ("please send proper command")
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:
   Temp=random.randint(0,100)
   pH=random.randint(0,14)
   Turbidity=random.randint(0,100)
    data = { 'Temp' : Temp, 'pH' : pH, 'Turbidity': Turbidity }
    def myOnPublishCallback():
     print ("Published, Temperature = %s %%" % Temp, "pH_Value = %s
pH" % pH, "Turbidity_Value = %s %%" % Turbidity, "to IBM Watson")
   success = deviceCli.publishEvent("IoTSensor", "json", data, gos=0,
on_publish=myOnPublishCallback)
   if not success:
     print("Not connected to IoTF")
   time.sleep(10)
   deviceCli.commandCallback = myCommandCallback
deviceCli.disconnect()
```