DEVELOP A PYTHON SCRIPT

Team ID	PNT2022TMID33098
Project Name	Project – Real – time River Water Quality Monitoring and Control System

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
orgnization = "84708c"
deviceType = "abcg"
deviceId = "12345"
authMethod = "token"
authToken = "12345678"
def mycommandCallback (cmd):
    print ("command received: %s" % cmd.data['command'])
    status=cmd.data['command']
```

```
    if status=="light on":
        print("led is on")
    elif status=="light off":
        print("led is off")
    else:
        print("please send the the proper command")
try:
     deviceOptions ={"org":organization, "type": deviceType,
"id":deviceId
     deviceCli= ibmiotf.device.Client (deviceOptions)

#...
exepct Execption as e:
            print("Caught evention connecting device: %s" %str(e))
            sys.exit()

deviceCli.connect()
while True:
    temp=random.randint (90,110)
```

```
    Humid=random.randit.randit (60,100)
    data = {'temp' : temp, 'Humid': Humid}
    def myonPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity
= %s %%" % Humid
    success =
deviceCli.publishEvent("IOTSensor","json",data,qos=0,on_publ
ish)
    if not sucess:
            print("Not connected to IOT")
            time.sleep(10)
            devicecli.commandcallback = mycommandCallback
deviceCli.disconnect
```