Develop Python Script

Date	10th November 2022
Team ID	PNT2022TMID15034
Project Name	IOT Based Real-Time River Water Quality Monitoring and Control System
Maximum Marks	4 Mark

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
orgnization = " 93eqjp"
deviceType = "MyDeviceType"
deviceId = "12345"
authMethod = " use-token-auth"
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_publish)
        if not sucess:
                print("Not connected to IOT")
                time.sleep(10)
                devicecli.commandcallback = mycommandCallback
deviceCli.disconnect
```