Develop The Python Script

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


#Provide your IBM Watson Device Credentials
organization ="8osflk"
deviceType = "cropprotection99"
deviceId = "cropprotection99"
authMethod="token"
authToken ="duiH-8z@4u@JXTmx20"
# InitializeGPIO
def myCommandCallback(cmd):
   print("Command received: %s" %cmd.data['command'])
   status =cmd.data['command']
   if status=="lighton":
      print("led on")
   else:
      print("led off")
#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()

#Connectandsendadatapoint"hello"withvalue"world"intothecloudasaneventoftype"greeting
"10times
deviceCli.connect()



while True:
   #GetSensorDatafromDHT11

   temp=random.randint(0,100)
   humid=random.randint(0,100)

   data={'temperature':temp,'humidity':humid}
         #printdata
   def myOnPublishCallback():
      print("Published Temperature=%s C" %temp,"Humidity=%s %%" % humid,"to
IBMWatson")


success=deviceCli.publishEvent("IoTSensor","json",data,qos=0,on_publish=myOnPublishCallb
ack)

   if not success:
      print("NotconnectedtoIoTF")
```

time.sleep(1)

deviceCli.commandCallback=myCommandCallback

#Disconnectthedeviceandapplicationfromthecloud

deviceCli.disconnect()