PYTHON SCRIPT

CODE:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "i3869j"
deviceType = "abcd"
deviceId = "12345"
authMethod = "token"
authToken = "12345678"
# Initialize GPIO
def myCommandCallback(cmd):
  print("Command received: %s" %
cmd.data['command'])
  status=cmd.data['command']
  if status=="lighton":
    print ("led is on")
  elif status == "lightoff":
```

```
print ("led is off")
  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()
# Connect and send a datapoint "hello" with value
"world" into the cloud as an event of type "greeting" 10
times
deviceCli.connect()
while True:
    #Get Sensor Data from DHT11
```

```
temp=random.randint(90,110)
    Humid=random.randint(60,100)
    data = { 'temp' : temp, 'Humid': Humid }
    #print data
    def myOnPublishCallback():
      print ("Published Temperature = %s C" % temp,
"Humidity = %s %%" % Humid, "to IBM Watson")
    success = deviceCli.publishEvent("IoTSensor",
"json", data, qos=0, on publish=myOnPublishCallback)
    if not success:
      print("Not connected to IoTF")
    time.sleep(10)
    deviceCli.commandCallback =
myCommandCallback
# Disconnect the device and application from the cloud
```

deviceCli.disconnect()

OUTPUT:





