# **DEVOLOP A PYTHON SCRIPT**

PROJECT TITLE	HAZARDOUS AREA MONITORING FOR		
	INDUSTRIAL PLANT POWERED BY IOT		
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## SOURCE CODE:

sys.exit()

```
import
time
  import imiotf.application
        import ibmibotf.device
        import random
        organization = "illeiar"
        deviceType = "IBM IOT"
      deviceId = "IBM_IOT_1"
        authMethod = "token"
      authToken = "987654321"
    def myCommandCallback(cmd):
           status = cmd.data['command']
           if status=="lighton":
            print("led is on")
           print("led is off")
           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))
```

## deviceCli.connect()

# while True:

temp=random.randint(0,100)

#### humd=random.randint(0,100)

data={'temp':temp, 'Humid': humd}

#### def myOnPublishCallback():

print("Published Temperature = %s C" % temp, "Humidity= %s %%" % humd,
"to IBM Watson")

success=deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on\_publish=myOnPublishCallback)

#### if not success:

print("Not Connected to IoTF")

time.sleep(1)

## deviceCli.commandCallback=myCommandCallback

deviceCli.disconnect()

### **OUTPUT:**

```
Five East Shell Debug Options Window Help
Published Temperature = 24 C Humidity = 64 % to IBM Watson
Published Temperature = 13 C Humidity = 35 % to IBM Watson
Published Temperature = 67 C Humidity = 92 % to IBM Watson
Published Temperature = 91 C Humidity = 92 % to IBM Watson
Published Temperature = 96 C Humidity = 36 % to IBM Watson
Published Temperature = 96 C Humidity = 36 % to IBM Watson
Published Temperature = 90 C Humidity = 78 % to IBM Watson
Published Temperature = 94 C Humidity = 78 % to IBM Watson
Published Temperature = 94 C Humidity = 79 % to IBM Watson
Published Temperature = 94 C Humidity = 79 % to IBM Watson
Published Temperature = 78 C Humidity = 79 % to IBM Watson
Published Temperature = 78 C Humidity = 75 % to IBM Watson
Published Temperature = 39 C Humidity = 55 % to IBM Watson
Published Temperature = 11 C Humidity = 63 % to IBM Watson
Published Temperature = 98 C Humidity = 65 % to IBM Watson
Published Temperature = 10 C Humidity = 55 % to IBM Watson
Published Temperature = 10 C Humidity = 16 % to IBM Watson
Published Temperature = 10 C Humidity = 15 % to IBM Watson
Published Temperature = 10 C Humidity = 15 % to IBM Watson
Published Temperature = 10 C Humidity = 95 % to IBM Watson
Published Temperature = 10 C Humidity = 95 % to IBM Watson
Published Temperature = 10 C Humidity = 16 % to IBM Watson
Published Temperature = 10 C Humidity = 95 % to IBM Watson
Published Temperature = 60 C Humidity = 91 % to IBM Watson
Published Temperature = 90 C Humidity = 91 % to IBM Watson
Published Temperature = 91 C Humidity = 91 % to IBM Watson
Published Temperature = 12 C Humidity = 10 % to IBM Watson
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