PUBLISH DATA TO THE IBM CLOUD

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Team Id	PNT2022TMID02630
Title	Hazardous Area Monitoring for Industrial Plant using IoT

Python Code

```
watson.py - C\Users\91887\AppData\Local\Programs\Python\Python310\watson.py (3.10.0)
File Edit Format Run Options Window Help
import sys
import ibmiotf.application
 import ibmiotf.device
import random
organization = "31hmfj"
deviceType = "efgh"
deviceId = "56789"
authMethod = "use-token-auth"
authToken = "123456789 "
def myCommandCallback(cmd):
    print("Command receied: %s" %cmd.data['command'])
    status = cmd.data['command']
     if status=="lighton":
    print("led is on")
else:
          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()
     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()
```

Generated Values

```
Published Temperature = 12 C Numidity: 79
Published Temperature = 55 C Humidity: 79
Published Temperature = 55 C Humidity: 79
Published Temperature = 25 C Humidity: 79
Published Temperature = 25 C Humidity: 79
Published Temperature = 24 C Humidity: 79
Published Temperature = 75 C Humidity: 79
Published Temperature = 75 C Humidity: 79
Published Temperature = 76 C Humidity: 79
Published Temperature = 76 C Humidity: 79
Published Temperature = 77
Published Temperature = 70 C Humidity: 79
Published Temperature = 70 C Humidity: 79
Published Temperature = 70 C Humidity: 70
Pub
```

Publishing the value to IBM cloud



