

SPRINT - 1

Python Code:

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

#Provide your IBM Watson Device Credentials
organization = "ssi30e"
deviceType = "pavithra"
deviceId = "8838"
authMethod = "token"
authToken =
"bPst59im2)xgp-VAqL"

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(0,100)
    Humid=random.randint(0,100)
    Gas=random.randint(0,100)

    data = { 'temp' : temp, 'Humid': Humid,'Gas':gas }
    #print data

    def myOnPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity = %s %" %
Humid, "Gas Concentration = %s"%Gas"to IBM Watson")

    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoT")
        time.sleep(10)

    deviceCli.commandCallback = myCommandCallback

# Disconnect the device and application from the cloud
deviceCli.disconnect()

```

Output:

Python Shell 3.10.5

File Edit Shell Debug Options Window Help

```
Published Temperature = 97 C Humanity = 85 % Gas Concentration = 81 % to IBM watson
Published Temperature = 96 C Humanity = 89 % Gas Concentration = 90 % to IBM watson
Published Temperature = 97 C Humanity = 88 % Gas Concentration = 87 % to IBM watson
Published Temperature = 88 C Humanity = 82 % Gas Concentration = 96 % to IBM watson
Published Temperature = 91 C Humanity = 96 % Gas Concentration = 91 % to IBM watson
Published Temperature = 94 C Humanity = 85 % Gas Concentration = 96 % to IBM watson
Published Temperature = 80 C Humanity = 80 % Gas Concentration = 99 % to IBM watson
Published Temperature = 91 C Humanity = 88 % Gas Concentration = 99 % to IBM watson
Published Temperature = 89 C Humanity = 96 % Gas Concentration = 92 % to IBM watson
Published Temperature = 98 C Humanity = 90 % Gas Concentration = 87 % to IBM watson
Published Temperature = 85 C Humanity = 84 % Gas Concentration = 89 % to IBM watson
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