SPRINT - 3

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PYTHON CODE : [To connect IBM WATSON]

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
deviceType = "abcd"
deviceId = "1234"
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")
else:
print ("led is off")
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organization = "wjmfdn"
```



```
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
level=random.randint(0,100)
weight=random.randint(0,100)
data = { 'level' : level, 'weight': weight }
#print data
def myOnPublishCallback():
print ("Published level = %s C" % level, "weight = %s %%"
% weight, "to IBM Watson")
success = deviceCli.publishEvent("IoTSensor", "json", data,
```

#print(cmd)



```
qos=0, on_publish=myOnPublishCallback)

if not success:

print("Not connected to IoTF")

time.sleep(1)

deviceCli.commandCallback = myCommandCallback

if (level>=75):

print("Full LED ON")

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

OUTPUT







