SPRINT-2

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PythonCode

```
import time import
sysimport
ibmiotf.applicationimportib
miotf.deviceimportrandom
#Provide your IBM
WatsonDevice
Credentialsorganization
="2melo1"deviceType=
"waste" deviceId = "1234" authMethod
="token"authToken="12345678"
#InitializeGPIO
def
myCommandCallback(cmd):print("Commandreceived:%s
"%cmd.data['command'])status=cmd.data['command']
ifstatus=="wastelevel":
    print("wastelevelmonitored")else:
    print("weightlevelmonitored")
```

```
#print(cmd)
        try:
        deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-
        method ": auth Method," auth-token" : auth Token \} device Cli=ibmiotf. device. Client (device Options)
                               #.....
exceptExceptionase:
                               print("Caughtexceptionconnectingdevice:%s"%str(e))sys.exit(
                               )
#Connect
 and send a data point "hello" with value "world" into the cloud as an event of type "greeting" 10 times device Cli. compared to the contract of the contract
 nnect()
whileTrue:
                 #GetSensorDatafromDHT11
                level=random.randint(0,100)weight=random.randint(0,100)
                 data = { 'level' : level, 'weight': weight
                 }#printdata
                 defmyOnPublishCallback():
                        print("PublishedLevel=%s%%"%level,"Weight=%s%%"%weight,"toIBMWatson")
```

```
success = deviceCli.publishEvent("IoTSensor", "json", data,
qos=0,on_publish=myOnPublishCallback)
ifnotsuccess:
    print("NotconnectedtoIOTF")time.sl
eep(20)
```

deviceCli.commandCallback=myCommandCallback

#DisconnectthedeviceandapplicationfromtheclouddeviceCli.disconnect()

OUTPUT:

NODEREDINPUTANDOUPUT:



