Sprint2

Program:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "zfwweu"
deviceType = "aaaa"
deviceId = "bbbb"
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")

    #print(cmd)
```

```
 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

      weight=random.randint(0,100)
      level=random.randint(0,100)

      data = { 'weight' : weight, 'level':level  }
      #print data
      def myOnPublishCallback():
         print ("Published Weight = %s Kg" % weight, "level = %s %%" % level, "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


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

Output in python idle:

```
*Python 3.7.0 Shell*
File  Edit  Shell  Debug  Options  Window  Help
Published Weight = 47 Kg level = 54 % to IBM Watson
Published Weight = 35 Kg level = 21 % to IBM Watson
Published Weight = 95 Kg level = 56 % to IBM Watson
Published Weight = 32 Kg level = 61 % to IBM Watson
Published Weight = 28 Kg level = 63 % to IBM Watson
Published Weight = 87 Kg level = 13 % to IBM Watson
Published Weight = 21 Kg level = 44 % to IBM Watson
Published Weight = 18 Kg level = 32 % to IBM Watson
Published Weight = 20 Kg level = 88 % to IBM Watson
Published Weight = 29 Kg level = 37 % to IBM Watson
Published Weight = 83 Kg level = 65 % to IBM Watson
Published Weight = 63 Kg level = 81 % to IBM Watson
Published Weight = 93 Kg level = 57 % to IBM Watson
Published Weight = 57 Kg level = 40 % to IBM Watson
Published Weight = 64 Kg level = 21 % to IBM Watson
Published Weight = 36 Kg level = 75 % to IBM Watson
Published Weight = 50 Kg level = 51 % to IBM Watson
Published Weight = 42 Kg level = 8 % to IBM Watson
Published Weight = 36 Kg level = 96 % to IBM Watson
Published Weight = 40 Kg level = 5 % to IBM Watson
Published Weight = 27 Kg level = 44 % to IBM Watson
Published Weight = 39 Kg level = 34 % to IBM Watson
Published Weight = 72 Kg level = 34 % to IBM Watson
Published Weight = 4 Kg level = 3 % to IBM Watson
Published Weight = 94 Kg level = 28 % to IBM Watson
Published Weight = 68 Kg level = 25 % to IBM Watson
Published Weight = 92 Kg level = 54 % to IBM Watson
Published Weight = 69 Kg level = 44 % to IBM Watson
Published Weight = 90 Kg level = 69 % to IBM Watson
Published Weight = 3 Kg level = 34 % to IBM Watson
Published Weight = 65 Kg level = 73 % to IBM Watson
Published Weight = 92 Kg level = 95 % to IBM Watson
Published Weight = 80 Kg level = 8 % to IBM Watson
Published Weight = 34 Kg level = 29 % to IBM Watson
Published Weight = 49 Kg level = 44 % to IBM Watson
Published Weight = 6 Kg level = 74 % to IBM Watson
Published Weight = 34 Kg level = 1 % to IBM Watson
Published Weight = 27 Kg level = 98 % to IBM Watson
Published Weight = 60 Kg level = 29 % to IBM Watson
```

OUTPUT IN IBM WATSON CLOUD: