```
import
time
        import sys
        import ibmiotf.application
        import ibmiotf.device
        import random
        #Provide your IBM Watson Device Credentials
        organization = "owxp6u" deviceType = "Smartbin" deviceId = "Bin1" authMethod = "token" authToken=
        "12345678910" # 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")
        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
        time.sleep(5)
        ultrasensor=random.randint(0,80)
        capacity=random.randint(0,100)
        lat=round(random.uniform(12.03,13.05),6)
        lon=round(random.uniform(80.80,85.90),6)
        data = { 'ultrasonicsensor' : ultrasensor, 'capacity': capacity, 'lat':lat, 'lom':lon}
        #print data
        def myOnPublishCallback():
        print ("Published ultrasonicsensor = %s Cm" % ultrasensor, "capacity= %s kg"
        %capacity,"lat:%s"%lat,"lon:%s"%lon)
        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(