SOURCE CODE:

```
import time
 import sys
 import ibmiotf.application
 import ibmiotf.device
 import random
#Provide your IBM Watson Device Credentials
 organization = "bxobbs"
 deviceType = "b5ibm"
 deviceId = "b5device"
 authMethod = "token"
 authToken = "b55m1eibm"
 # 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
    temp=random.randint(0,100)
    Humid=random.randint(0,100)
    data = { 'temp' : temp, 'Humid': Humid }
    #print data
    def myOnPublishCallback():
      print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "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()