## FINAL  CODE:

```python
import time

import sys

import ibmiotf.application

import ibmiotf.device

import random

#Provide your IBM Watson Device Credentials

organization = "b84wgs"

deviceType = "abi"

deviceId = "12345678"

authMethod = "token"

authToken = "87654321"

# Initialize GPIO

def myCommandCallback(cmd):

    print("Command received: %s" % cmd.data['command'])

    status=cmd.data['command']

    if status=="motoron":

        print ("Motor is ON")

    else :

        print ("Motor is OFF")

    #print(cmd)

try:

        deviceOptions = {"org": organization, "type": deviceType, "id": deviceId,
"auth-method": authMethod, "auth-token": authToken}

        deviceCli = ibmiotf.device.Client(deviceOptions)
```

```python
        #...........................................
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
```

**DEMO LINK:**

https://youtu.be/tb6ebR6rABM