Python code:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "o3esl6"
deviceType = "HAYAN24"
deviceId = "HAYAN24id"
authMethod = "token"
authToken = "hayanthika2411"
# Initialize GPIO
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status=="lighton":
    print ("led is on")
  elif status == "lightoff":
      print ("led is off")
  else:
    print ("please send proper command")
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(90,110)
  Humid=random.randint(60,100)
  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(10)
  deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```