Develop the python script:

Program:

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🝌 *sneha.py - C:/Users/Nava/AppData/Local/Programs/Python/Python37-32/sneha.py (3.7.0)*

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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)
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)
```

Output:

Output in cloud Watson:

