## Publish Data to the IBM Cloud

Team ID	PNT2022TMID12348
Project Name	Smart Waste Management System For
	Metropolitan Cities

## **PYTHON SCRIPT**

```
PythonScript.py - C:/Python/Python37/PythonScript.py (3.7.4)
 File Edit Format Run Options Window Help
import time
 import ibmiotf.application
 import ibmiotf.device
 import random
#Provide your IBM Watson Device Credentials
organization = "dluuhi"
deviceType = "SWMS"
deviceId = "6032"
authMethod = "token"
authToken = "311519106032"
 # 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:
           deviceOntions = /"one". organization "tume". deviceTume "id". deviceTd "anth-method". anthMethod "anth-token". *
deviceOptions = { org : organization, type : deviceType, id : deviceTd, addi-method : addi-method, addi-token : *
deviceCli = ibmiotf.device.Client(deviceOptions)
           print("Caught exception connecting device: %s" % str(e))
 # 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()
```

## **OUTPUT:**

## DATA IN IBM CLOUD PLATFORM:

