## Publish Data to the IBM Cloud

Team ID	PNT2022TMID05287
Project Name	Smart Waste Management System For
	Metropolitan Cities

## **PYTHON SCRIPT**

```
- ø ×
PythonScript.py - C:/Python/Python37/PythonScript.py (3.7.4)
File Edit Format Run Options Window Help 
import time
 import sys
import ibmiotf.application
 import ibmiotf.device
 #Provide your IBM Watson Device Credentials
organization = "dluuhi"
deviceType = "SWMS"
deviceId = "6032"
authMethod = "token"
authToken = "311519106032"
 # Initialize GPIO
 def mvCommandCallback(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". deviceOptions = ( org : organization, type : deviceIype, id : deviceId, auth-method : authmethod, auth-token: deviceOf = 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()
         #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:

