## Publish Data to the IBM Cloud

Team ID	PNT2022TMID39665
Project Name	Smart Waste Management System For
	Metropolitan Cities

## **PYTHON SCRIPT**

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File Edit Format Run Options Window Help
import time
import ibmiotf.application
import random
#Provide your IBM Watson Device Credentials
organization = "dluuhi"
deviceType = "SWMS"
deviceId = "6032"
authMethod = "token"
authToken = "311519106032"
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 = f"ora": organization "tyme": deviceTyme "id": deviceTd "auth-method": authMethod "auth-token": veviceOptions - { Org : Organization, type : deviceType, id : deviceTd, addi-method : addimethod, addi-token : A
          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)
          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:

