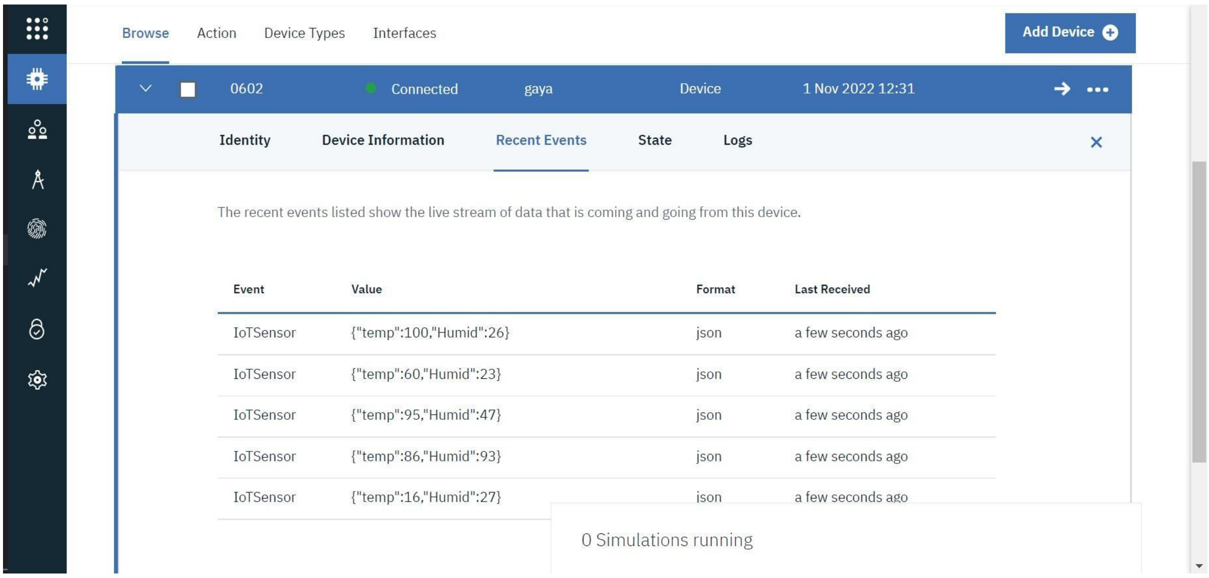
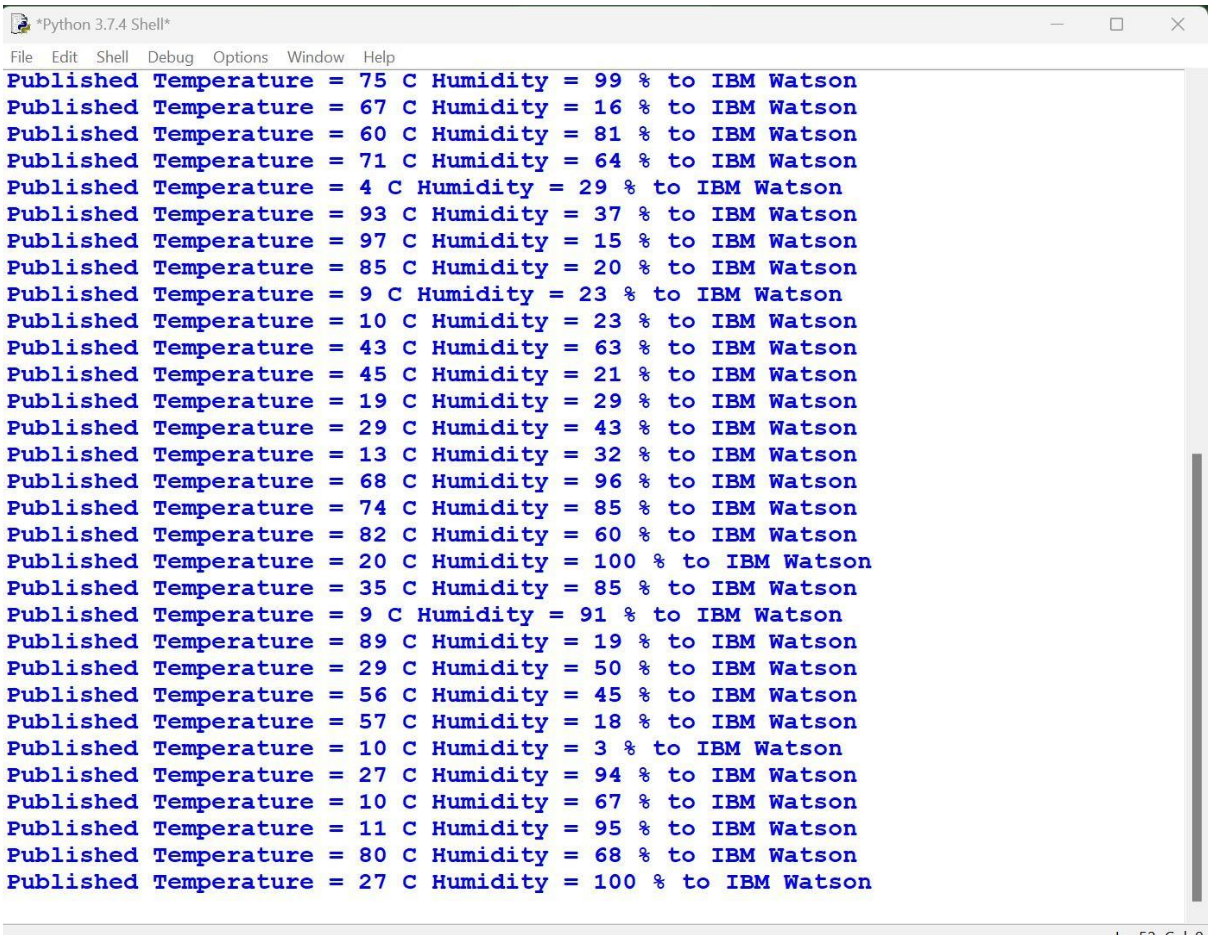
Team ID	PNT2022TMID27330
Project Title	Signs with Smart Connectivity for Better Road Safety



The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IoTSensor	{"temp":100,"Humid":26}	json	a few seconds ago
IoTSensor	{"temp":60,"Humid":23}	json	a few seconds ago
IoTSensor	{"temp":95,"Humid":47}	json	a few seconds ago
IoTSensor	{"temp":86,"Humid":93}	json	a few seconds ago
IoTSensor	{"temp":16,"Humid":27}	json	a few seconds ago

0 Simulations running



```
Published Temperature = 75 C Humidity = 99 % to IBM Watson
Published Temperature = 67 C Humidity = 16 % to IBM Watson
Published Temperature = 60 C Humidity = 81 % to IBM Watson
Published Temperature = 71 C Humidity = 64 % to IBM Watson
Published Temperature = 4 C Humidity = 29 % to IBM Watson
Published Temperature = 93 C Humidity = 37 % to IBM Watson
Published Temperature = 97 C Humidity = 15 % to IBM Watson
Published Temperature = 85 C Humidity = 20 % to IBM Watson
Published Temperature = 9 C Humidity = 23 % to IBM Watson
Published Temperature = 10 C Humidity = 23 % to IBM Watson
Published Temperature = 43 C Humidity = 63 % to IBM Watson
Published Temperature = 45 C Humidity = 21 % to IBM Watson
Published Temperature = 19 C Humidity = 29 % to IBM Watson
Published Temperature = 29 C Humidity = 43 % to IBM Watson
Published Temperature = 13 C Humidity = 32 % to IBM Watson
Published Temperature = 68 C Humidity = 96 % to IBM Watson
Published Temperature = 74 C Humidity = 85 % to IBM Watson
Published Temperature = 82 C Humidity = 60 % to IBM Watson
Published Temperature = 20 C Humidity = 100 % to IBM Watson
Published Temperature = 35 C Humidity = 85 % to IBM Watson
Published Temperature = 9 C Humidity = 91 % to IBM Watson
Published Temperature = 89 C Humidity = 19 % to IBM Watson
Published Temperature = 29 C Humidity = 50 % to IBM Watson
Published Temperature = 56 C Humidity = 45 % to IBM Watson
Published Temperature = 57 C Humidity = 18 % to IBM Watson
Published Temperature = 10 C Humidity = 3 % to IBM Watson
Published Temperature = 27 C Humidity = 94 % to IBM Watson
Published Temperature = 10 C Humidity = 67 % to IBM Watson
Published Temperature = 11 C Humidity = 95 % to IBM Watson
Published Temperature = 80 C Humidity = 68 % to IBM Watson
Published Temperature = 27 C Humidity = 100 % to IBM Watson
```

Python Code:

```
import time import sys
import
ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device
Credentials organization = "6z3so6"
deviceType = "gaya" deviceId = "0602"
authMethod = "token" authToken =
"gaya12345"

# Initialize GPIO

def myCommandCallback(cmd): print("Command
   received: %s" % cmd.data['command'])
   status=cmd.data['command'] if status=="switchon": print
   ("Switch is on")
```

```
  else : print ("Switch is
    off")

  #print(cmd)

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(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()
```