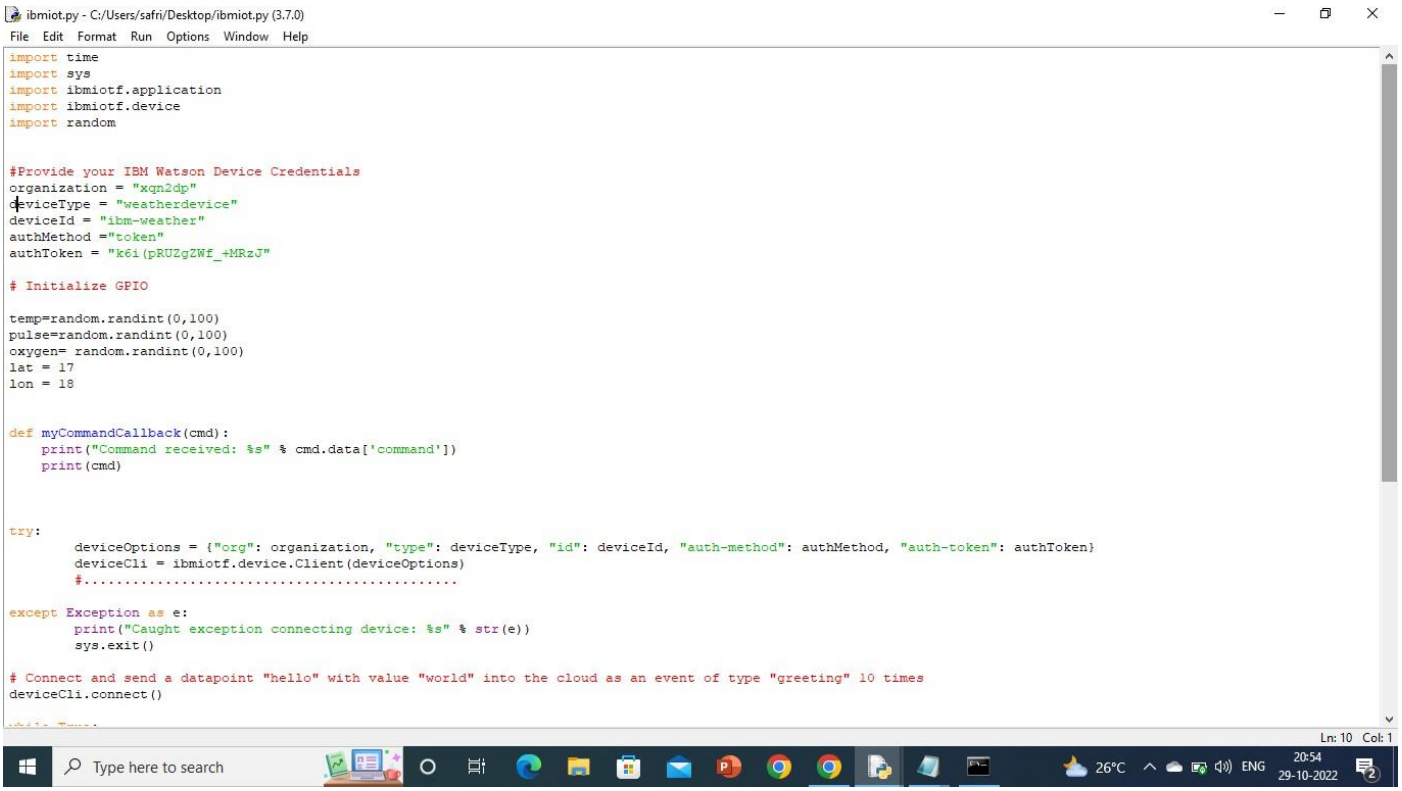
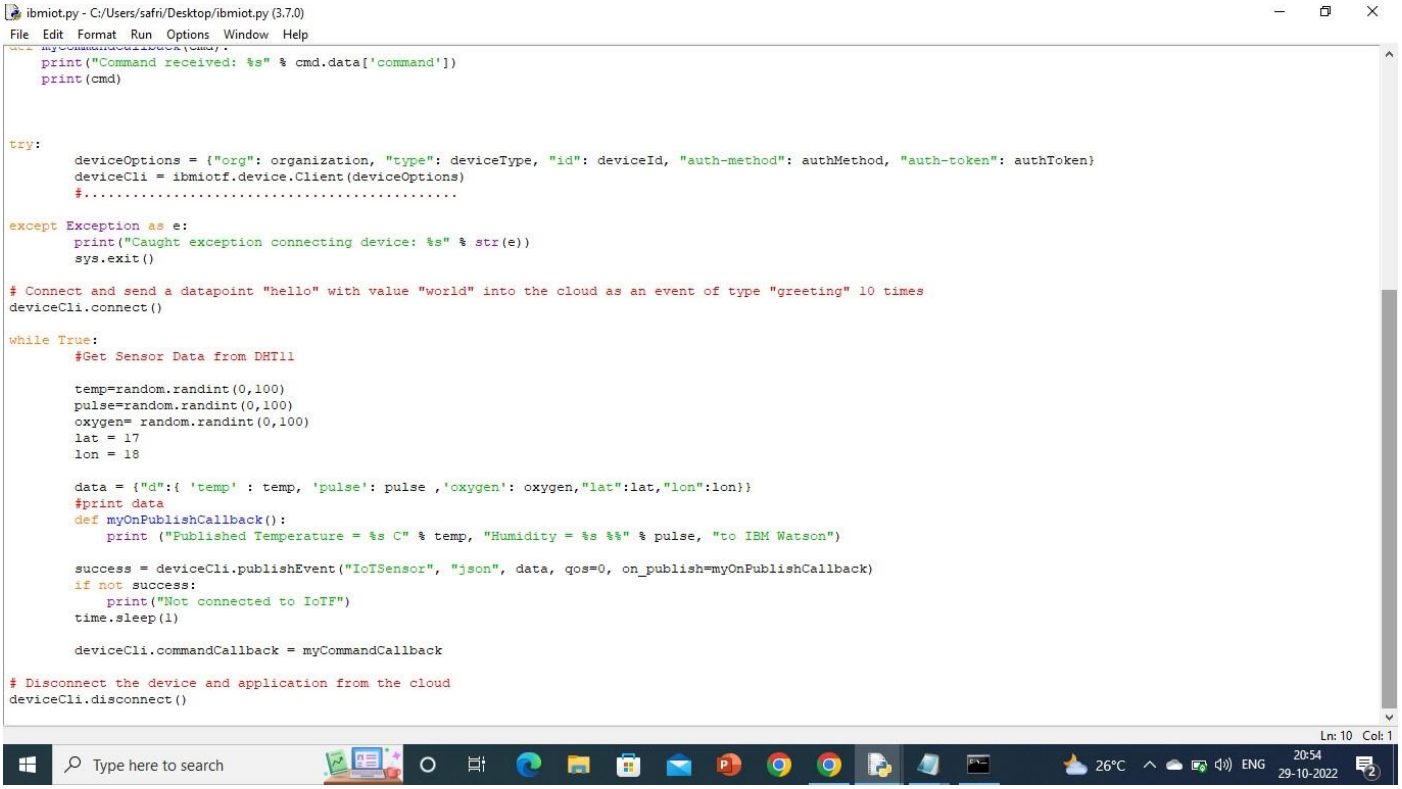
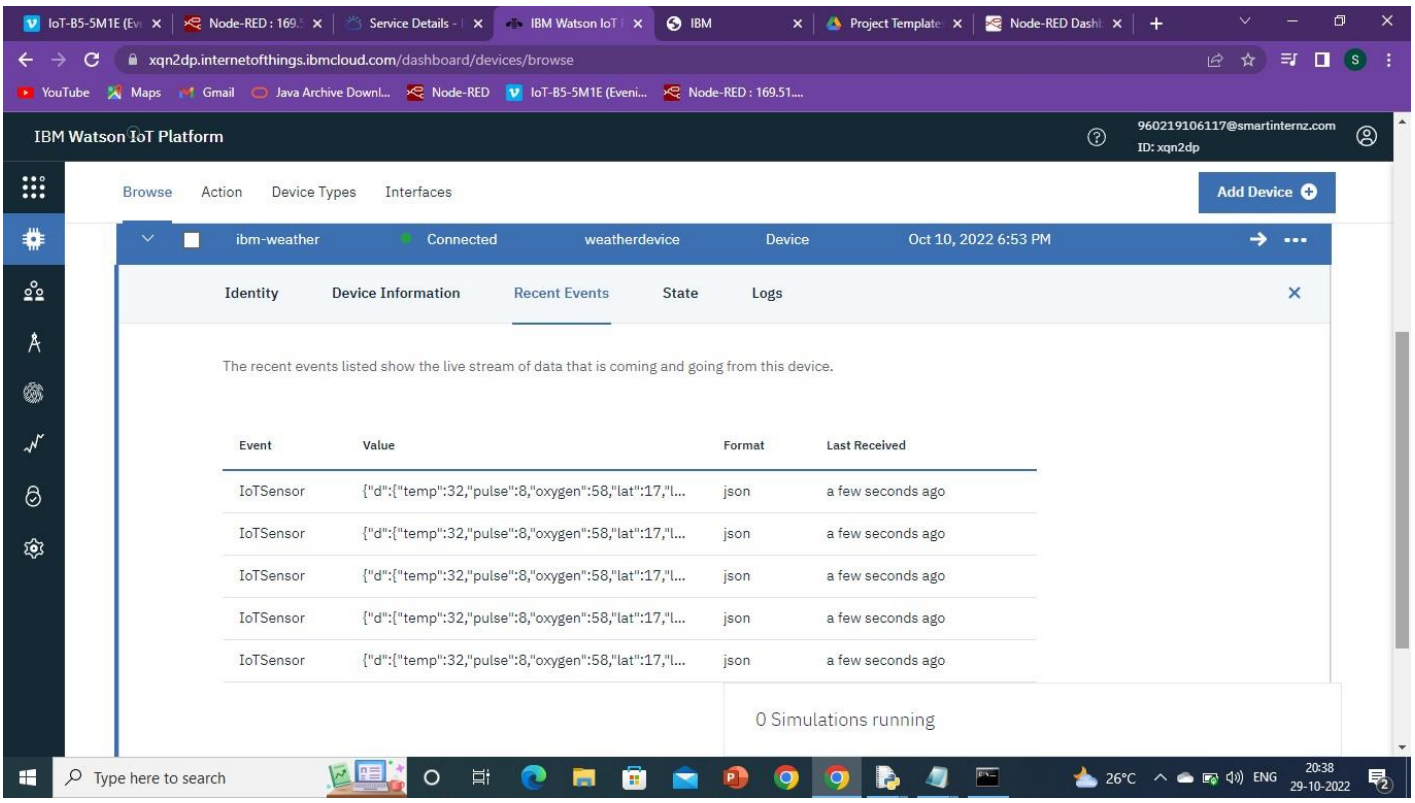
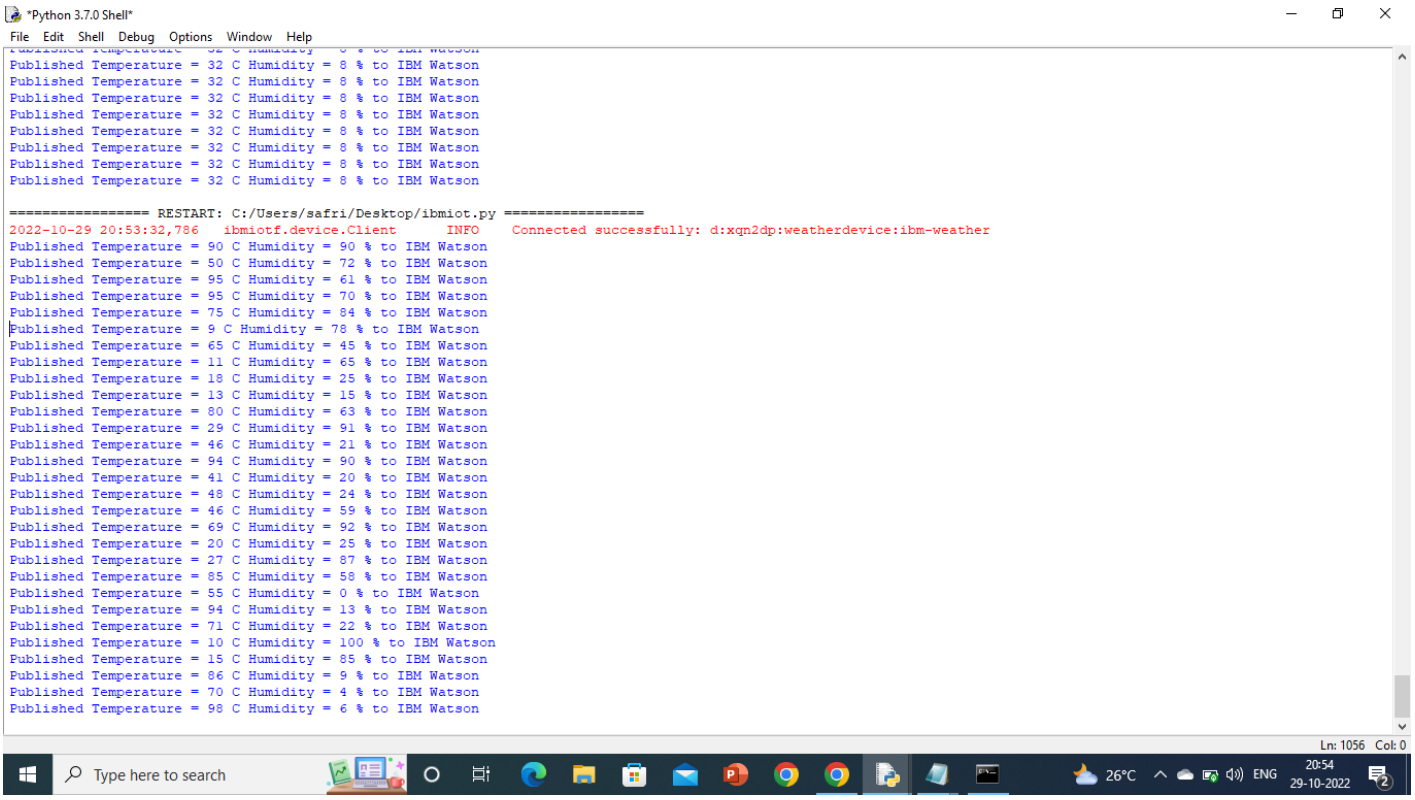
Develop the Python Code

TEAM ID:PNT2022TMID26684




ibmiot.py - C:/Users/safri/Desktop/ibmiot.py (3.7.0)
File Edit Format Run Options Window Help
def myCommandCallback(cmd):
print("Command received: %s" % cmd.data['command'])
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)
pulse=random.randint(0,100)
oxygen= random.randint(0,100)
lat = 17
lon = 18
data = {"d":{ 'temp' : temp, 'pulse': pulse ,'oxygen': oxygen,"lat":lat,"lon":lon}}
#print data
def myOnPublishCallback():
print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % pulse, "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()
Ln: 10 Col: 1
Type here to search
26°C
ENG
20:54
29-10-2022


IBM Watson IoT Platform
960219106117@smartinternz.com
ID: xqn2dp
Browse
Action
Device Types
Interfaces
Add Device
ibm-weather
Connected
weatherdevice
Device
Oct 10, 2022 6:53 PM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
IoTSensor
{"d":{"temp":32,"pulse":8,"oxygen":58,"lat":17,"l...
json
a few seconds ago
0 Simulations running


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Published Temperature = 32 C Humidity = 8 % to IBM Watson
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========== RESTART: C:/Users/safri/Desktop/ibmiot.py ==========
2022-10-29 20:53:32,786 ibmiotf.device.Client INFO Connected successfully: d:xqn2dp:weatherdevice:ibm-weather
Published Temperature = 90 C Humidity = 90 % to IBM Watson
Published Temperature = 50 C Humidity = 72 % to IBM Watson
Published Temperature = 95 C Humidity = 61 % to IBM Watson
Published Temperature = 95 C Humidity = 70 % to IBM Watson
Published Temperature = 75 C Humidity = 84 % to IBM Watson
Published Temperature = 9 C Humidity = 78 % to IBM Watson
Published Temperature = 65 C Humidity = 45 % to IBM Watson
Published Temperature = 11 C Humidity = 65 % to IBM Watson
Published Temperature = 18 C Humidity = 25 % to IBM Watson
Published Temperature = 13 C Humidity = 15 % to IBM Watson
Published Temperature = 80 C Humidity = 63 % to IBM Watson
Published Temperature = 29 C Humidity = 91 % to IBM Watson
Published Temperature = 46 C Humidity = 21 % to IBM Watson
Published Temperature = 94 C Humidity = 90 % to IBM Watson
Published Temperature = 41 C Humidity = 20 % to IBM Watson
Published Temperature = 48 C Humidity = 24 % to IBM Watson
Published Temperature = 46 C Humidity = 59 % to IBM Watson
Published Temperature = 69 C Humidity = 92 % to IBM Watson
Published Temperature = 20 C Humidity = 25 % to IBM Watson
Published Temperature = 27 C Humidity = 87 % to IBM Watson
Published Temperature = 85 C Humidity = 58 % to IBM Watson
Published Temperature = 55 C Humidity = 0 % to IBM Watson
Published Temperature = 94 C Humidity = 13 % to IBM Watson
Published Temperature = 71 C Humidity = 22 % to IBM Watson
Published Temperature = 10 C Humidity = 100 % to IBM Watson
Published Temperature = 15 C Humidity = 85 % to IBM Watson
Published Temperature = 86 C Humidity = 9 % to IBM Watson
Published Temperature = 70 C Humidity = 4 % to IBM Watson
Published Temperature = 98 C Humidity = 6 % to IBM Watson
Ln: 1056 Col: 0