Sprint – 1

Team ID: PNT2022TMID18315

Python Code: # Sprint - 1 # Team ID: PNT2022TMID18315 import time import sys import ibmiotf.application import ibmiotf.device import random #Provide your IBM Watson Device Credentials organization = "lcft5g" deviceType = "Final" deviceId = "Hello" authMethod = "token" authToken = "8300113450" 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)
    Gas=random.randint(0,100)
    data = { 'temp' : temp, 'Humid': Humid,'Gas':gas }
     #print data
    def myOnPublishCallback():
       print ("Published Temperature = %s C" % temp, "Humidity = %s %%" %
Humid, "Gas Concentration = %s"%Gas"to IBM Watson")
     success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on publish=myOnPublishCallback)
     if not success:
       print("Not connected to IoTF")
    time.sleep(10)
     deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

Output:

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- 0
                                                                                                                                                                                                                                                                                  ×
                                                                                                                                                   > temp.py - C:/Users/LENOVO/OneDrive/Desktop/temp.py (3.10.5)*
                                                                                                                                                   # Initialize GPIO
                                                                                                                                                               deviceOptions = {"org": organization, "type": deviceType, "id": deviceId
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 e deviceCli.connect()
                                                                                                                                                   while True:
#Get Sensor Data from DHT11
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Humid=random.randint(0,100)
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                                                                                                                   IBM watson
o IBM watson
                                                                                                                                                          data = { 'temp' : temp, 'Humid': Humid, 'Gas':Gas }
                                                                                                                                                         #print data
def myOnPublishCallback():
    print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % H
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deviceCli.disconnect()
                                                                                                                                                                                                                                                             Ln: 55 Col: 22
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```