Sprint – 1

Team ID: PNT2022TMID25221

Python Code: # Sprint - 1 # Team ID: PNT2022TMID25221 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:

```
- 0 ×
                                                                                                             # Initialize GPIO
                                                                                                                     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
                                                                                                                     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 Tempe
                                                                                                                                                  erature = %s C" % temp, "Humidity = %s %%" % H
                                                                                                                    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_pu
if not success:
    print("Not connected to IoTF")
time.sleep(10)
                                                                                                                    deviceCli.commandCallback = myCommandCallback
                                                                                                            # Disconnect the device and application from the cloud deviceCli.disconnect()
                                                                                                                                                                                           Ln: 55 Col: 22
                                                                                                                                                                                                     Ln: 318 Col: 0
```