## Sprint – 1

## **Team ID: PNT2022TMID41669**

## **Python Code:** #Sprint - 1 # Team ID: PNT2022TMID41669 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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authMethod = "token"
authToken = "8300113450"
                                                                                                                                                                                                                                                                                                                                                             # 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()
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Humid=random.randint(0,100)
Gas=random.randint(0,100)
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def myOnPublishCallback():
   print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % H
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if not success:
    print("Not connected to IOTF")
time.sleep(10)
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