## **Team ID: PNT2022TMID10955**

```
Python Code:
# Sprint - 3
# Team ID: PNT2022TMID10221
import time import
sys
import ibmiotf.application
           ibmiotf.device
import
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:**