Sprint – 1

Team ID	PNT2022TMID37599
Project Name	Hazardous Area Monitoring for Industrial Plant Powered by IOT
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Python Code:

```
# Sprint - 1


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: