## PROJECT DEVELOPMENT PHASE SPRINT - 1

Date	14 November 2022
Team ID	PNT2022TMID38668
Project Name	Gas Leakage Monitoring And Alerting System For Industries

event of type "greeting" 10 times

```
PYTHON SOURCE CODE:
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device
Credentials organization = "bd91hr"
deviceType = " android"
deviceId = "1902"
authMethod = " use-token-auth"
authToken = "12345678"
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
```

```
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,
gos=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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File Edit Shell Debug Options Window Help

Published Temparature = 97 C Humanity = 85 % Gas Concentration = 81 % to IBM Watson Published Temparature = 96 C Humanity = 88 % Gas Concentration = 90 % to IBM Watson Published Temparature = 97 C Humanity = 88 % Gas Concentration = 90 % to IBM Watson Published Temparature = 86 C Humanity = 88 % Gas Concentration = 96 % to IBM Watson Published Temparature = 86 C Humanity = 86 % Gas Concentration = 96 % to IBM Watson Published Temparature = 86 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 80 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 80 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 80 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 80 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 97 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 87 C Humanity = 80 % Gas Concentration = 86 % to IBM Watson Published Temparature = 87 C Humanity = 96 % Gas Concentration = 96 % to IBM Watson Published Temparature = 97 C Humanity = 96 % Gas Concentration = 91 % to IBM Watson Published Temparature = 96 C Humanity = 96 % Gas Concentration = 96 % to IBM Watson Published Temparature = 96 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 96 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 96 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 80 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 80 C Humanity = 80 % Gas Concentration = 96 % to IBM Watson Published Temparature = 80 C Humanity = 90 % Gas Concentration = 96 % to IBM Watson Published Temparature = 80 C Humanity = 90 % Gas Concentration = 96 % to IBM Watson Published Temparature = 80 C Humanity = 90 % Gas Concentration = 96 % to IBM Watson Published Temparature = 80 C Humanity = 90 % Gas Concentration = 90 % t
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                                                                                                                                                                                                                                                                                                                                                    authMethod = "token"
authToken = "8300113450"
                                                                                                                                                                                                                                                                                                                                                    # Initialize GPIO
                                                                                                                                                                                                                                                                                                                                                                                deviceOptions = {"org": organization, "type": deviceType, "id": deviceId
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                                                                                                                                                                                                                                                                                                                                                      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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