```
Project Name: Gas leakage monitoring and alerting system for industries
SPRINT 1
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device
Credentials organization = "s3qdw6"
deviceType = "CloudProject"
deviceId = "164163"
authMethod = "token"
authToken =
"0903202008052002"
# Initialize GPIO
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))
```

Team ID: PNT2022TMID11664

```
# 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
```

sys.exit()

Disconnect the device and application from the cloud deviceCli.disconnect()