

## SPRINT 1

TEAM ID	PNT2022TMID15087
PROJECT NAME	GAS LEAKAGE MONITORING AND ALTERING SYSTEM FOR INDUSTRIES

### SPRINT 1 – CODING

```
import json
```

```
import random
```

```
import wiotp.sdk.device
```

```
import time
```

```
import ibmiotf.application
```

```
import ibmiotf.device
```

```
import requests, json
```

```
myConfig = {
```

```
    "identity": {
```

```
        "orgId": "hib5xp",
```

```
        "typeId": "rasberrypi",
```

```
        "deviceId": "1234"
```

```
    },
```

```
    "auth": {
```

```
        "token": "abcdefgh"
```

```
    }
```

```
}
```

```
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
```

```
client.connect()
```

```
while True:
```

```
    name= "PNT2022TMID15087"
```

```
latitude= 11.055712
longitude= 76.804089
gas = random.randint(0,600)
temperature=random.randint(20,40)
humidity=random.randint(40,60)
if(gas>300):
    alarm=1
else:
    alarm=0

mydata={'name': name, 'lat':latitude,'lon':longitude, 'gas':gas,
'alarm':alarm,'temp':temperature,'hum':humidity}

client.publishEvent(eventId="status", msgFormat="json", data=mydata, qos=0, onPublish=None)

print("Data published to IBM IoT platform: ",mydata)

time.sleep(10)

client.disconnect()
```

PNT2002TMID15087.py - C:\Users\Ajay Ganesh\Desktop\PNT2002TMID15087.py (3.7.0)

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```
import json
import random
import wiotp.sdk.device
import time
import ibmiotf.application
import ibmiotf.device
import requests, json

myConfig = {
    "identity": {
        "orgId": "hib5xp",
        "typeId": "rasberryypi",
        "deviceId": "1234"
    },
    "auth": {
        "token": "abcdefgh"
    }
}

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    name= "PNT2022TMID15087"

    latitude= 11.055712
    longitude= 76.804089
    gas = random.randint(0,600)
    temperature=random.randint(20,40)
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    if(gas>300):
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    mydata={'name': name, 'lat':latitude, 'lon':longitude, 'gas':gas, 'alarm':alarm, 'temp':temperature, 'hum':humidity}
    client.publishEvent(eventId="status", msgFormat="json", data=mydata, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",mydata)
    time.sleep(10)

client.disconnect()
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