SPRINT 4

DATE	5/11/2022
TEAM ID	PNT2022TMID22887
PROJECT NAME	GAS LEAKAGE MONITORING
	AND ALERTING SYSTEM FOR
	INDUSTRIES
MAXIMUM MARKS	2

CODE DEVELOPMENT IN PYTHON IDLE:

PYTHON PROGRAM:

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "y2y0te",
    "typeId": "NodeMCU",
    "deviceId":"12345"
  },
  "auth": {
    "token": "12345678"
  }
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
  m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
```

```
while True:
  gas=random.randint(200,1500)
  tem=random.randint(0,100)
  hum=random.randint(0,100)
  pre=random.randint(12,25)
  if gas<1000:
    san=("Normal")
    s1 = 0
  else:
    san=("Danger Leakage")
    s1=1
  myData={'gaslevel':gas,"status":san,"st":s1,"pr":pre,"temp":tem,"hu":hum}
  #myData={'co2 level in ppm':gas}
  client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
  print("Published data Successfully: %s", myData)
  client.commandCallback = myCommandCallback
  time.sleep(2)
client.disconnect()
```

CONNECTING THE DEVICE AND CREATING DEVICE ID IN IBM WATSON PLATFORM:

