SPRINT-1

SIMULATION CREATION

Date	13 November 2022
Team ID	PNT2022TMID42278
Project Name	Hazardous Area Monitoring for Industrial
	Power Plant powered by IOT

```
PYTHON CODE:
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time import
random
myConfig = {
"identity": {
"orgId": "7v14xw",
"typeId": "Sowmi",
"deviceId":"1"
},
"auth": {
"token": "Sowmi@12"
}
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:
  temp=random.randint(-20,125)
hum=random.randint(0,100)
myData={'temperature':temp,'humidity':hum}
client.publishEvent(eventId="status", msgFormat="json",
```

```
data=myData, qos=0, onPublish=None) print("Published

data Successfully: %s", myData) client.commandCallback =
myCommandCallback
  if(temp>50):
    print("Temperature Alert")

if(hum>50):
print("Humidity Alert")

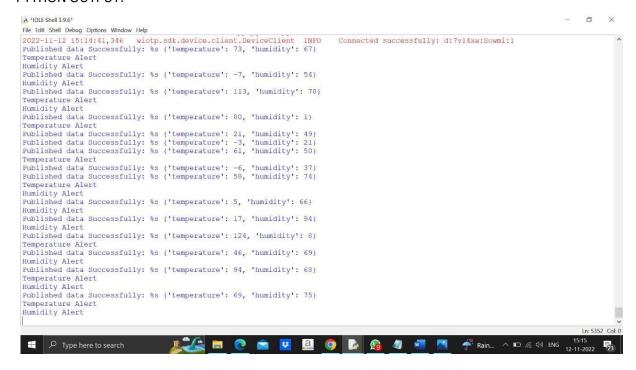
time.sleep(5)
client.disconnect() CODE:
```

```
Web app pythonay - D/IBM PROJECT/Web app pythonay (3.96)

| Ide Life from at Run Options Window Help

| IBM Mataton | OT Plateform
| Spip install windy-adk device
| import windy-adk device
| import windy-adk device
| import time
| import windy-adk device
| import trandom
| myConfig = {
| "identity" : {
| "orgid": "7v14xv",
| "eyerd": "Sowmi",
| "deviceId": "| "
| },
| "auth": {
| "woken": "Sowmi812" |
| }
| def myCommandCallback(cmd):
| print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
| m=cmd.data['command']
| client = windy-adk device.DeviceClient(config=myConfig, logHandlers=None)
| client = windy-adk device.DeviceClient(config=myConfig, logHa
```

PYTHON OUTPUT:



WATSON OUTPUT:

