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):

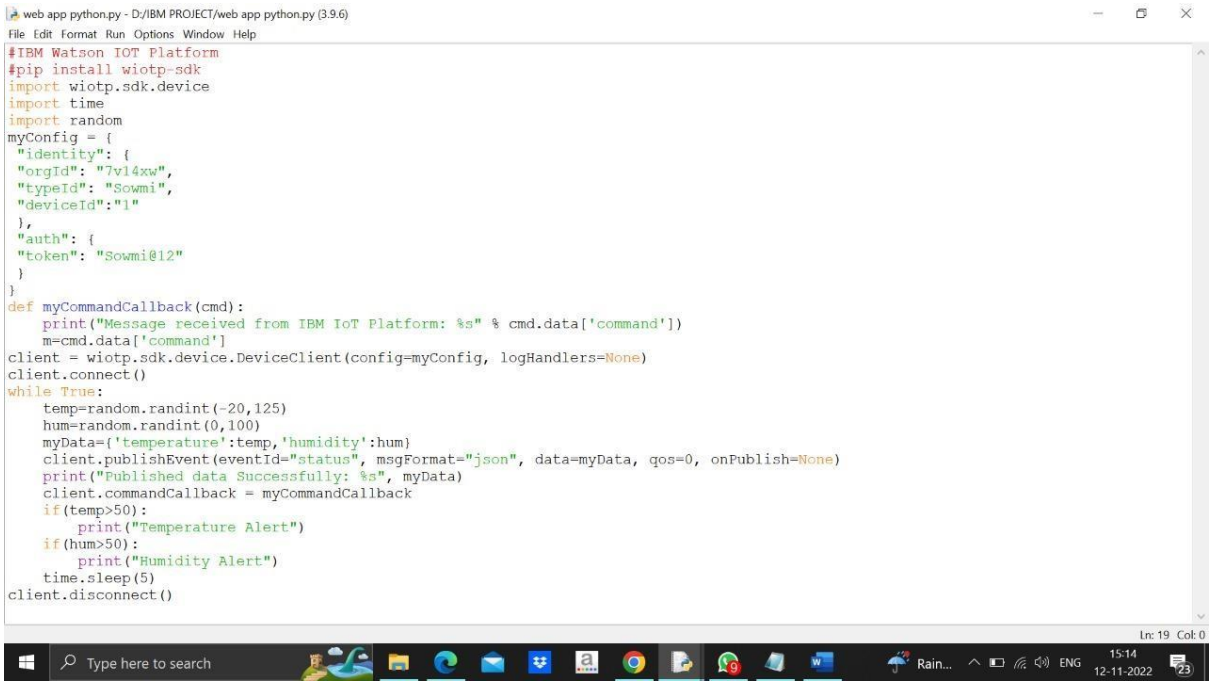
print("Temperature Alert")

if(hum>50):

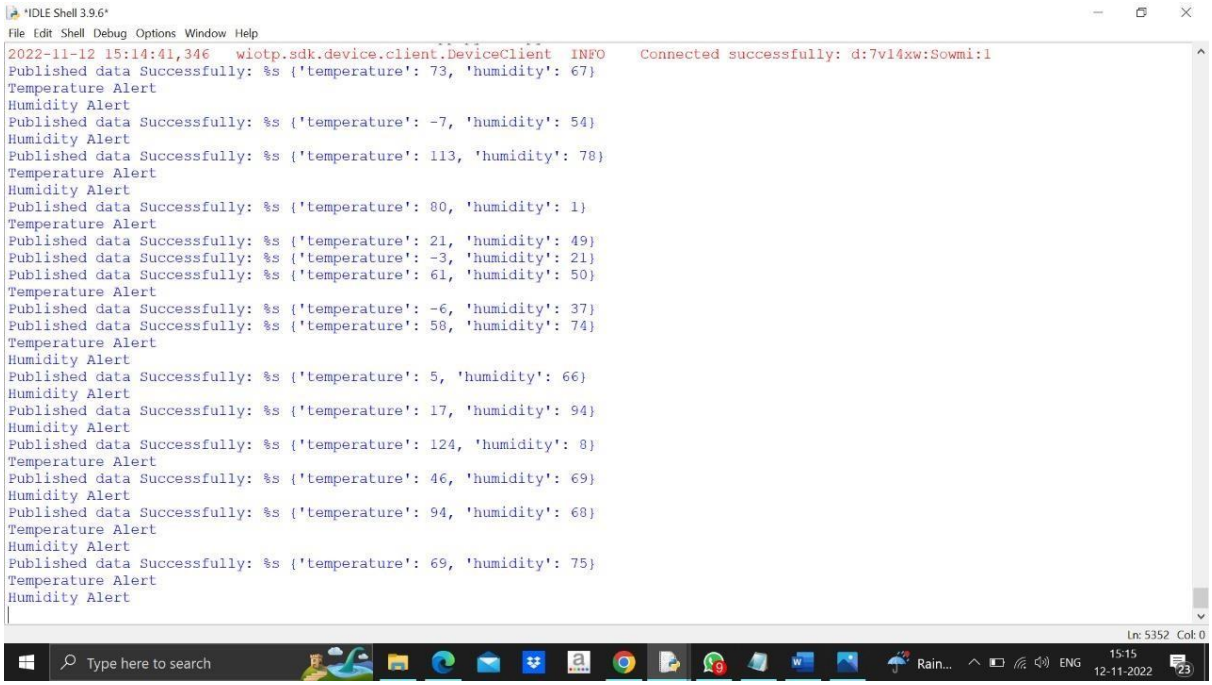
print("Humidity Alert")

time.sleep(5)

client.disconnect()  CODE:



PYTHON OUTPUT:




WATSON OUTPUT: