FINAL CODE

TEAM ID	PNT2022TMID28572
PROJECT TITLE	Hazardous area monitoring for industrial plant powered by IoT
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ALGORITHM:

1. Start
2. Import 3 modules
3. Create the IBM IoT platform device
4. Give device id
5. Connect the device
6. Introducing my command call back function
7. Get a random temperature and humidity values
8. Loop infinitely
9. Print the random temperature and humidity values on console
10. Publish the values to IBM Watson IoT platform
11. Stop

SOURCE CODE:

```
#connecting the python to IBM watson IoT platform
import wiotp.sdk.device
import time
import random
myconfig = {
    "identity":{
        "orgId":"ph99dh",
        "typeId":"NodeMCU",
        "deviceId":"123456"
       },
    "auth":{
        "token":"gkfpv_xfl1FB1)*fvy"
        }
    }
```

```
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
        time.sleep(2)
client.disconnect()
```

Fig. Screenshot of python code