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DOMAIN- IOT
PROJECT TITLE- Gas Leaking Monitoring And Alerting System For Industries
TEAM ID- PNT2022TMID15954
TEAM MEMBERS-

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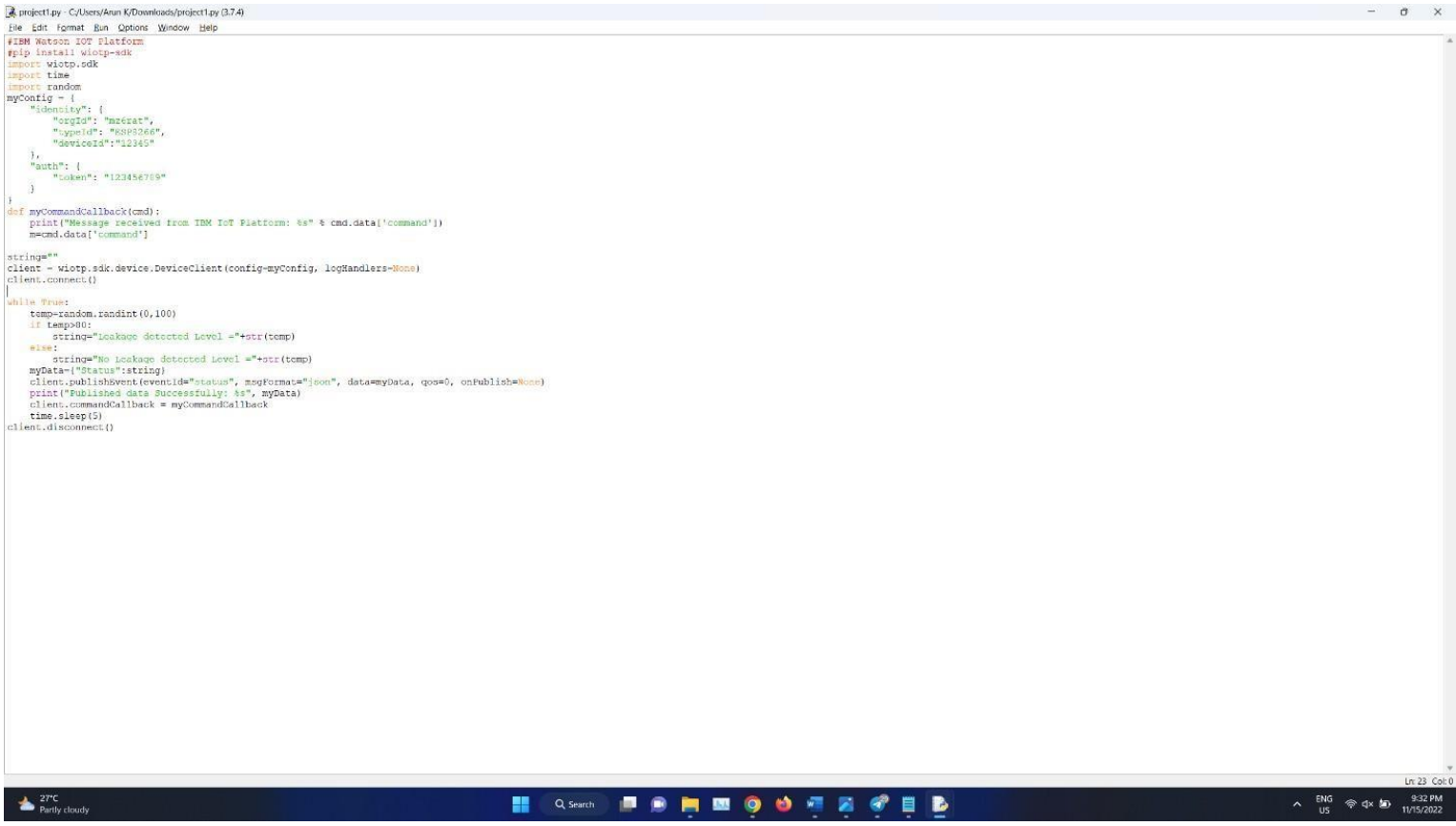
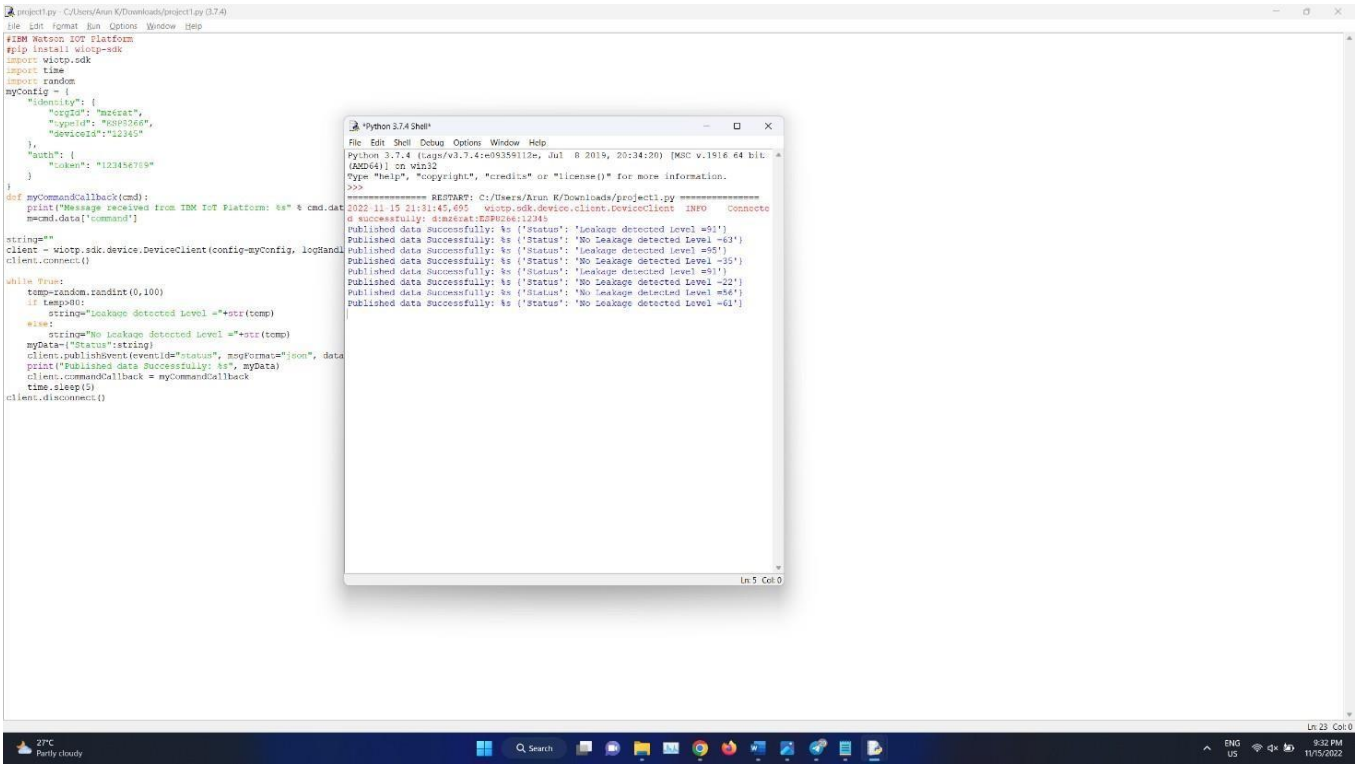
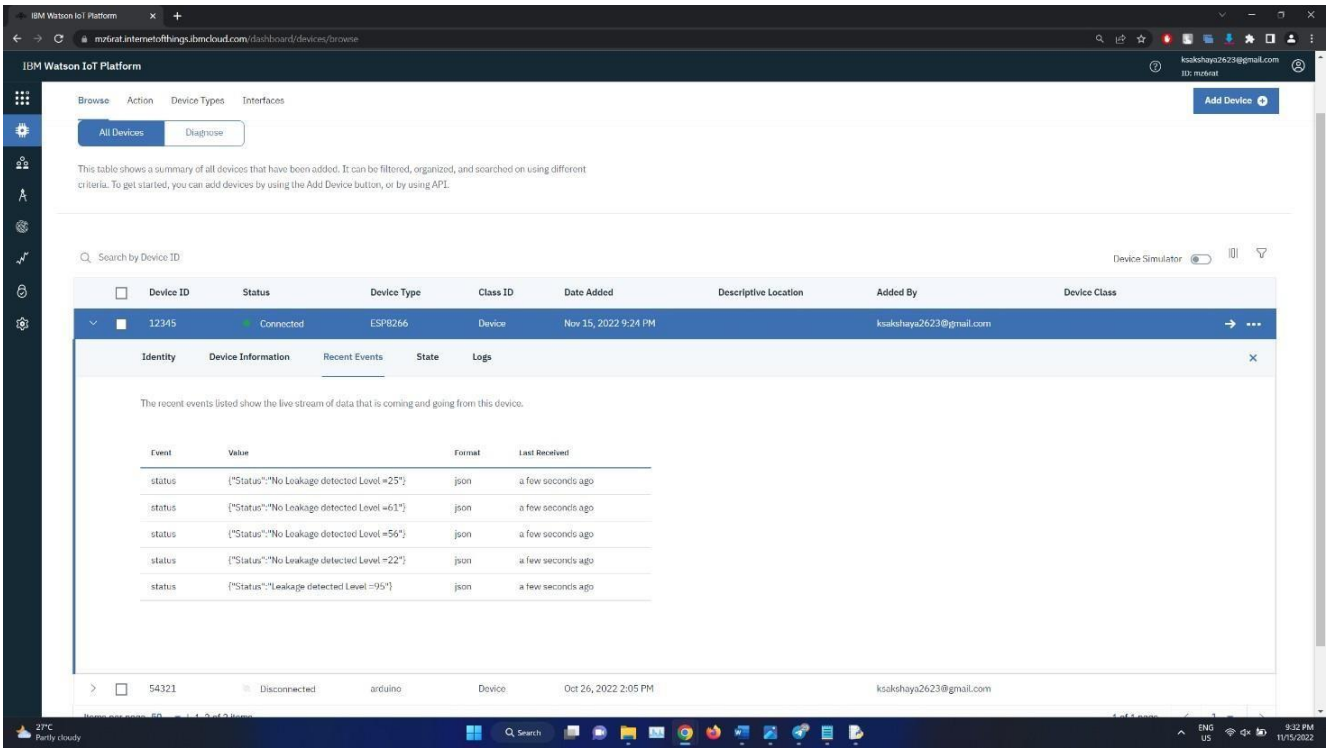
4) A. Lalith Kumar




project1.py - C:/Users/Arun K/Downloads/project1.py (3.7.4)
File Edit Format Run Options Window Help
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk
import time
import random
myConfig = {
"identity": {
"orgId": "mz6rat",
"typeId": "ESP8266",
"deviceId":"12345"
},
"auth": {
"token": "123456789"
}
}
def myCommandCallback(cmd):
print("Message received from IBM IoT Platform: %s" % cmd.dat
m=cmd.data['command']
string=""
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandl
client.connect()
while True:
temp=random.randint(0,100)
if temp>80:
string="Leakage detected Level ="+str(temp)
else:
string="No Leakage detected Level ="+str(temp)
myData={"Status":string}
client.publishEvent(eventId="status", msgFormat="json", data
print("Published data Successfully: %s", myData)
client.commandCallback = myCommandCallback
time.sleep(5)
client.disconnect()
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Users/Arun K/Downloads/project1.py ==========
2022-11-15 21:31:45,695 wiotp.sdk.device.client.DeviceClient INFO Connecte
d successfully: d:mz6rat:ESP8266:12345
Published data Successfully: %s {'Status': 'Leakage detected Level =91'}
Published data Successfully: %s {'Status': 'No Leakage detected Level =63'}
Published data Successfully: %s {'Status': 'Leakage detected Level =95'}
Published data Successfully: %s {'Status': 'No Leakage detected Level =35'}
Published data Successfully: %s {'Status': 'Leakage detected Level =91'}
Published data Successfully: %s {'Status': 'No Leakage detected Level =22'}
Published data Successfully: %s {'Status': 'No Leakage detected Level =56'}
Published data Successfully: %s {'Status': 'No Leakage detected Level =61'}
Ln: 5 Col: 0
Ln: 23 Col: 0
27°C
Partly cloudy
Search
ENG
US
9:32 PM
11/15/2022


IBM Watson IoT Platform
mz6rat.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
ksakshaya2623@gmail.com
ID: mz6rat
Browse
Action
Device Types
Interfaces
Add Device
All Devices
Diagnose
This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
Added By
Device Class
12345
Connected
ESP8266
Device
Nov 15, 2022 9:24 PM
ksakshaya2623@gmail.com
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
status
{"Status":"No Leakage detected Level =25"}
json
a few seconds ago
status
{"Status":"No Leakage detected Level =61"}
json
a few seconds ago
status
{"Status":"No Leakage detected Level =56"}
json
a few seconds ago
status
{"Status":"No Leakage detected Level =22"}
json
a few seconds ago
status
{"Status":"Leakage detected Level =95"}
json
a few seconds ago
54321
Disconnected
arduino
Device
Oct 26, 2022 2:05 PM
ksakshaya2623@gmail.com
27°C
Partly cloudy
Search
ENG
US
9:32 PM
11/15/2022