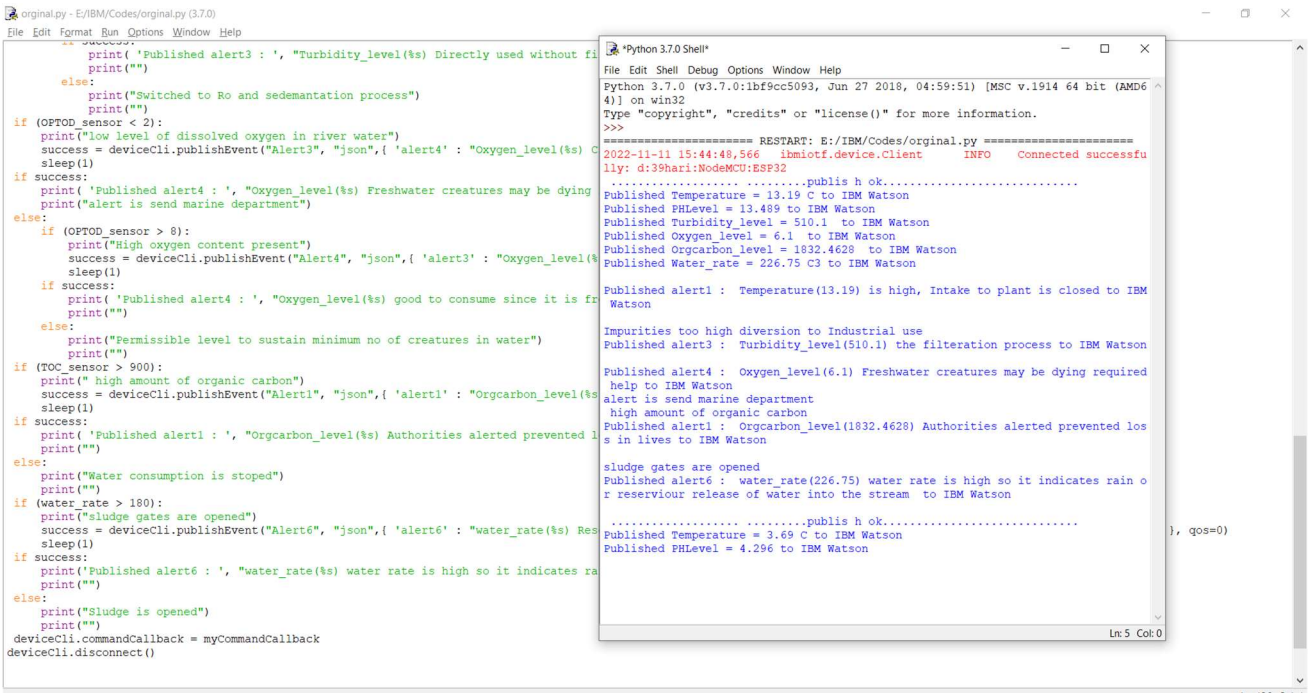
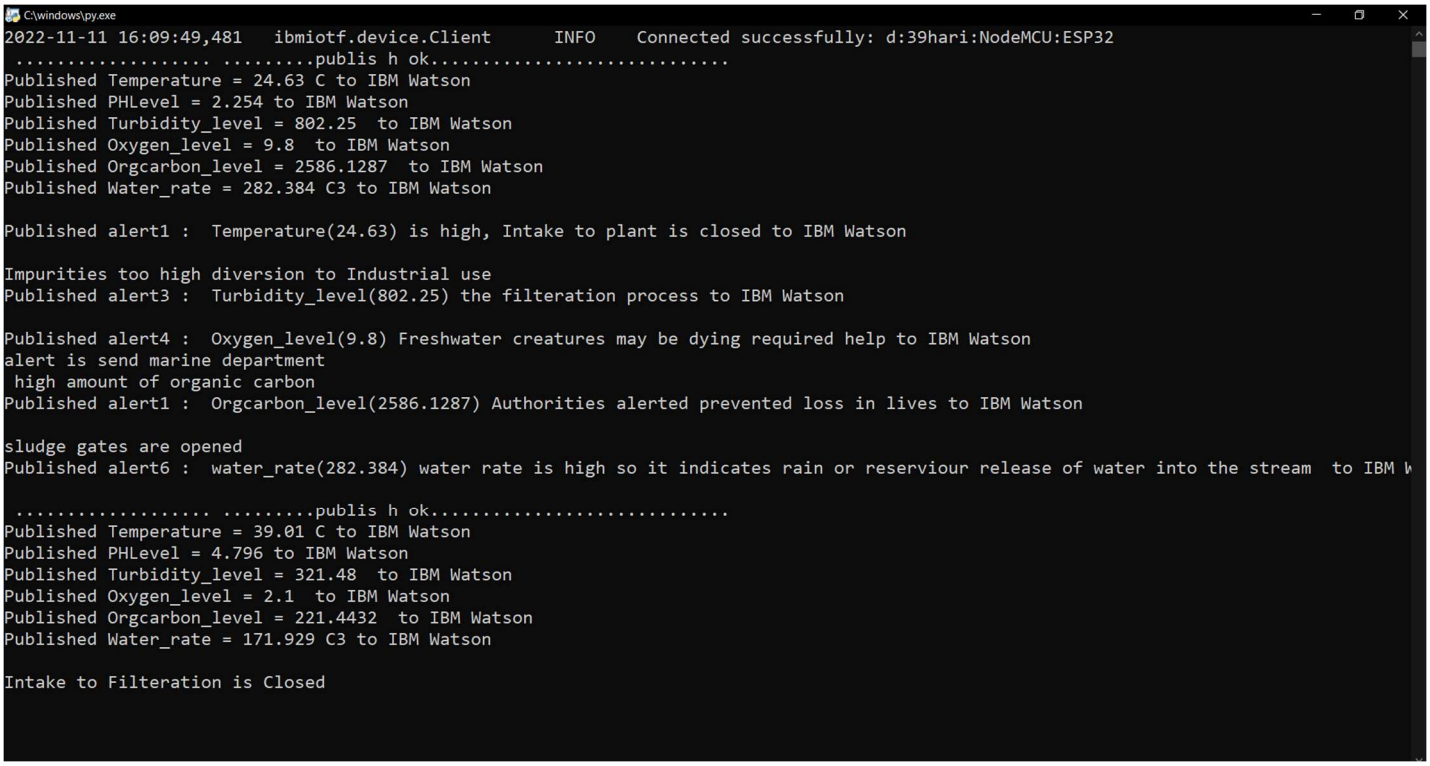
Develop The Python Script

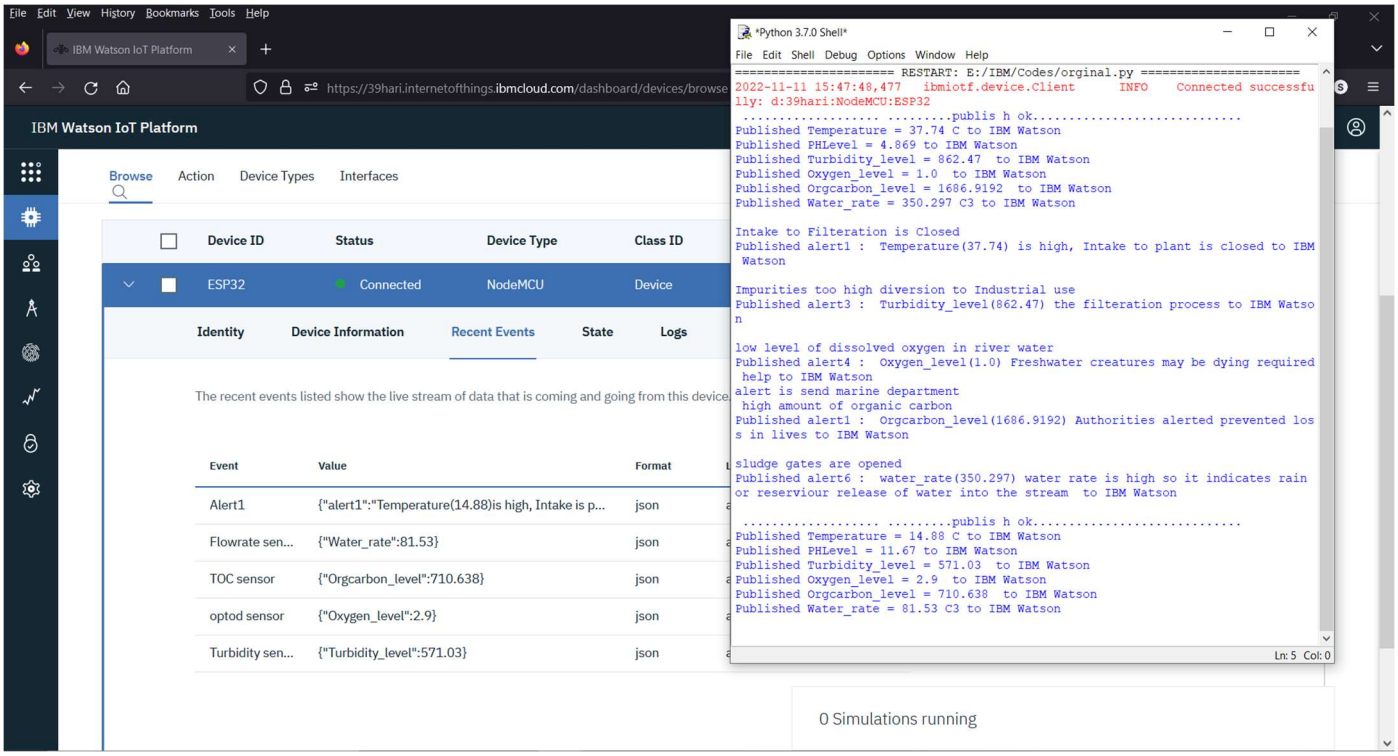
Publishing the Data to Cloud

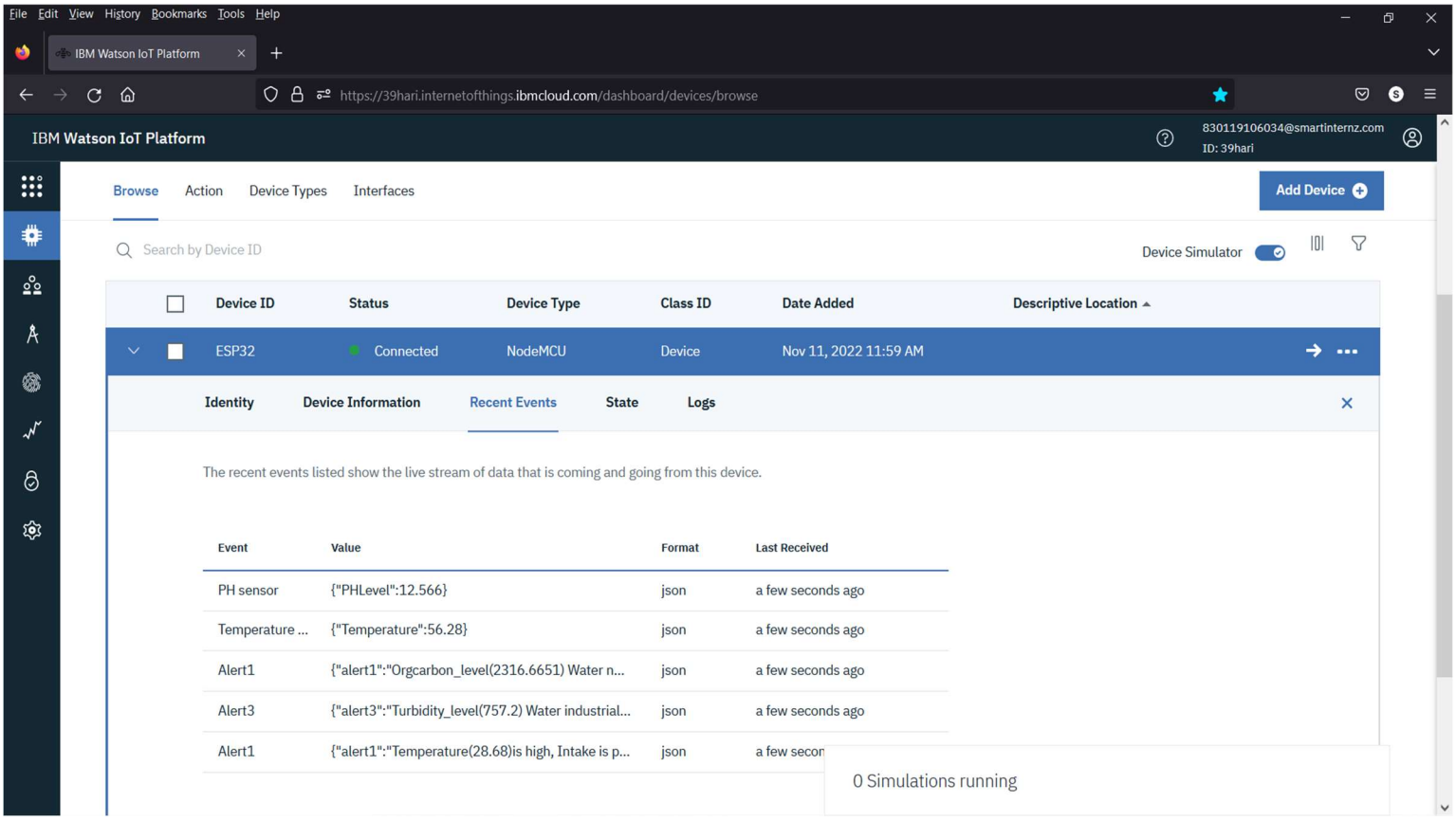
Date	11 November 2022
Team ID	PNT2022TMID47383
Project Name	Real-Time River Water Quality Monitoring and Control System





The above given is python exe file output and the below is execution of it in python IDE and its data updating in the cloud.


IBM Watson IoT Platform
https://39hari.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Device ID
Status
Device Type
Class ID
ESP32
Connected
NodeMCU
Device
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
Alert1
{"alert1":"Temperature(14.88)is high, Intake is p...
json
Flowrate sen...
{"Water_rate":81.53}
json
TOC sensor
{"Orgcarbon_level":710.638}
json
optod sensor
{"Oxygen_level":2.9}
json
Turbidity sen...
{"Turbidity_level":571.03}
json
0 Simulations running
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
========== RESTART: E:/IBM/Codes/orginal.py ==========
2022-11-11 15:47:48,477 ibmiotf.device.Client INFO Connected successfully: d:39hari:NodeMCU:ESP32
....publis h ok.....
Published Temperature = 37.74 C to IBM Watson
Published PHLevel = 4.869 to IBM Watson
Published Turbidity_level = 862.47 to IBM Watson
Published Oxygen_level = 1.0 to IBM Watson
Published Orgcarbon_level = 1686.9192 to IBM Watson
Published Water_rate = 350.297 C3 to IBM Watson
Intake to Filteration is Closed
Published alert1 : Temperature(37.74) is high, Intake to plant is closed to IBM Watson
Impurities too high diversion to Industrial use
Published alert3 : Turbidity_level(862.47) the filteration process to IBM Watson
low level of dissolved oxygen in river water
Published alert4 : Oxygen_level(1.0) Freshwater creatures may be dying required help to IBM Watson
alert is send marine department
high amount of organic carbon
Published alert1 : Orgcarbon_level(1686.9192) Authorities alerted prevented loss in lives to IBM Watson
sludge gates are opened
Published alert6 : water_rate(350.297) water rate is high so it indicates rain or reservioure release of water into the stream to IBM Watson
....publis h ok.....
Published Temperature = 14.88 C to IBM Watson
Published PHLevel = 11.67 to IBM Watson
Published Turbidity_level = 571.03 to IBM Watson
Published Oxygen_level = 2.9 to IBM Watson
Published Orgcarbon_level = 710.638 to IBM Watson
Published Water_rate = 81.53 C3 to IBM Watson
Ln: 5 Col: 0


IBM Watson IoT Platform
https://39hari.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
830119106034@smartinternz.com
ID: 39hari
Browse
Action
Device Types
Interfaces
Add Device
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
ESP32
Connected
NodeMCU
Device
Nov 11, 2022 11:59 AM
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
PH sensor
{"PHLevel":12.566}
json
a few seconds ago
Temperature ...
{"Temperature":56.28}
json
a few seconds ago
Alert1
{"alert1":"Orgcarbon_level(2316.6651) Water n...
json
a few seconds ago
Alert3
{"alert3":"Turbidity_level(757.2) Water industrial...
json
a few seconds ago
Alert1
{"alert1":"Temperature(28.68)is high, Intake is p...
json
a few secon
0 Simulations running