## **SPRINT 4**

Date	17 November 2022
Team ID	PNT2022TMID32705
Project Name	Real time River Water Quality Monitoring And
	Control System

```
STEP 1:
Python code to connect IBM WATSON
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "pyvd3r",
    "typeId": "waterquality",
    "deviceId":"1357911"
  },
  "auth": {
    "token": "Aarthi0908"
  }
}
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}
```

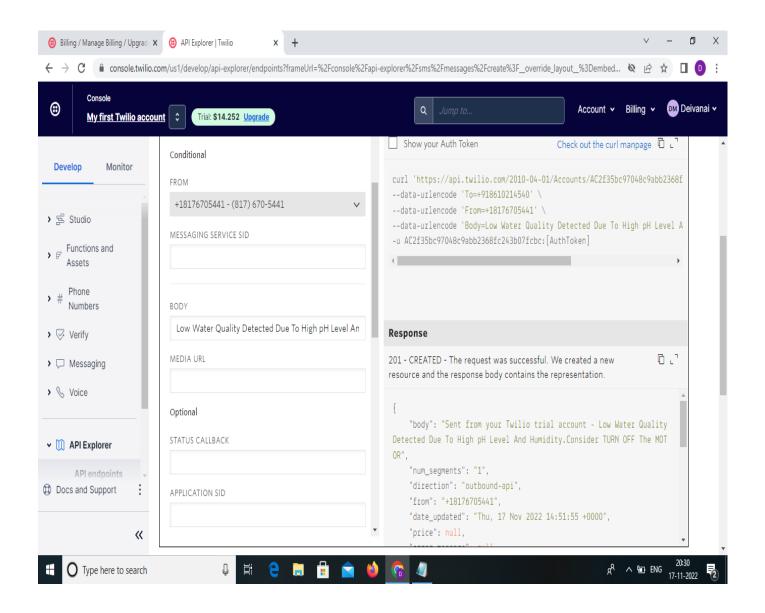
```
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
print("Published data Successfully: %s", myData)
client.commandCallback = myCommandCallback
time.sleep(2)
client.disconnect()
```

## STEP 2:

Publish Watson data to the Node-red and connect with Twilio Account to send SMS

STEP 3:

Information about the water quality sent from Twilio Account to Higher Authority via SMS



STEP 4 :
SMS Received to Higher Authority

