

**Team id: PNT2022TMID05726**

## **Project title: Real-Time River Water Quality Monitoring and Control System**

**Publish data in IBM:**

```
ibmcode.py - C:\Users\sound\OneDrive\Desktop\IBM\ibmcode.py (3.7.0)
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import ibmiotf.application
import ibmiotf.device
import time
import random
import sys
#from twilio.rest import Client
#import key
#Client = Client(keys.account_sid, keys.auth_token)

organization = "maci0x"
deviceType = "raspberrypi"
deviceId = "123"
authMethod = "token"
authToken = "12345678"

pH = random.randint(1, 14)
turbidity = random.randint(1, 100)
temperature = random.randint(0, 100)

def myCommandCallback(cmd):
    print("Command Received: %s" % cmd.data['command'])
    #print(cmd)
    status=cmd.data['command']
    if status=="motoron":
        print("motor is on")
    elif status == "motoroff":
        print ("motor is off")
    else :
        print("Please send proper command")

try:
    deviceOptions = {"org": organization, "type": deviceTy
                    "auth-token": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\sound\OneDrive\Desktop\IBM\ibmcode.py =====
2022-11-17 09:40:36,253 ibmiotf.device.Client INFO Connected successfu
lly: d:maci0x:raspberrypi:123
Published pH= 2 Turbidity:6 Temperature:1
Published pH= 11 Turbidity:47 Temperature:58
```