SPRINT 1

PROJECT DEVELOPMENT PHASE

Date	15 November 2022
Team ID	PNT2022TMID11410
Project Name	Real -Time River Water Quality Monitoring and
	Control System

CODE:

```
import wiotp.sdk.device
import os
import time
import random
myConfig = {
    "identity": {
        "orgId": "12mn2r",
        "typeId": "QweRt",
        "deviceId":"938411"
    },
    "auth": {
        "token": "987654321"
```

```
}
}
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:
  tur=random.randint(20,300)
  tem=random.randint(0,100)
 ph=random.randint(1,14)
 myData={'temperature':tem, 'turbidity':tur, 'phvalue':ph}
  client.publishEvent(eventId="status", msgFormat="json",
                                                               data=myData,
                                                                                 qos=0,
onPublish=None)
 print("Published data Successfully: %s", myData)
  client.commandCallback = myCommandCallback
  time.sleep(300)
  client.disconnect()
```

OUTPUT:

Output:

```
Published data ('T': 23, 'pH': 85, 'conductivity': 37, 'oxygen': 41, 'turbidity'
: 2) to IBM Watson
Published data ('T': 39, 'pH': 87, 'conductivity': 1, 'oxygen': 32, 'turbidity':
84) to IBM Watson
Published data ('T': 90, 'pH': 89, 'conductivity': 29, 'oxygen': 65, 'turbidity'
: 93) to IBM Watson
Published data ('T': 91, 'pH': 15, 'conductivity': 0, 'oxygen': 27, 'turbidity':
60) to IBM Watson
Published data ('T': 52, 'pH': 65, 'conductivity': 59, 'oxygen': 78, 'turbidity'
: 23) to IBM Watson
Published data ('T': 96, 'pH': 96, 'conductivity': 20, 'oxygen': 47, 'turbidity'
: 90) to IBM Watson
Published data ('T': 87, 'pH': 73, 'conductivity': 92, 'oxygen': 41, 'turbidity'
: 85) to IBM Watson
Published data {'T': 90, 'pH': 21, 'conductivity': 81, 'oxygen': 83, 'turbidity'
: 61) to IBM Watson
```