## DEVELOP THE PYTHON SCRIPT

Team ID	PNT2022TMID12734
Project Name	Real-Time River Water Quality Monitoring And Control System

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Import ibmitof.device
Import type Itime
Import type Itime
Import random
Import and device credentials

Organization="rjOgwb"
deviceType="RivWatQuality"
deviceType="RivWatQuality"
authMethod="Token"
authToken="UTF_FB+did3k) O_pA7"

def myCommandCallback(cmd):
    print("Command': Rommand')
    if status =="Motoron":
        print("motor is off")

Igenerate random values for pH and turbity

def myCommandCallback(cmd):
    print ("motor is off")

Igenerate random values for pH and turbity

def myCommandCallback(cmd):
    print ("command' received: %s" %cmd.data['command'])
    print ("motor is off")

Igenerate random values for pH and turbity

def myCommandCallback(cmd):
    print ("command received: %s" %cmd.data['command'])
    print ("command received: %s" %cmd.data['command'])
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    print ("command received: %s" %cmd.data['command'])

deviceOptions=("org": organization, "type": deviceType, "id": deviceid, "auth-method":authMethod, "auth-token":authToken)
    deviceOptions=("org": organization, "type": deviceType, "id": deviceid, "auth-method":authMetho
```

```
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#connect and sending data of pH Values and Turbidity
deviceCli.connect()
while True:
    time.sleep(2)
    Ph=random.randint(0,14)
   Turb=random.randint(0,10)
   data={'Ph':Ph,'Turb':Turb}
   print(data)
    def myOnPublishCallBack():
        print ("pH Value of Water %s " %Ph)
        print("Turb Value of Water %s " %Turb)
    success=deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallBack)
    if not success:
        print ("Not connected to IoTF")
    time.sleep(1)
   deviceCli.commandCallback=myCommandCallback
```

#disconnect the device from the cloud

deviceCli.connect()