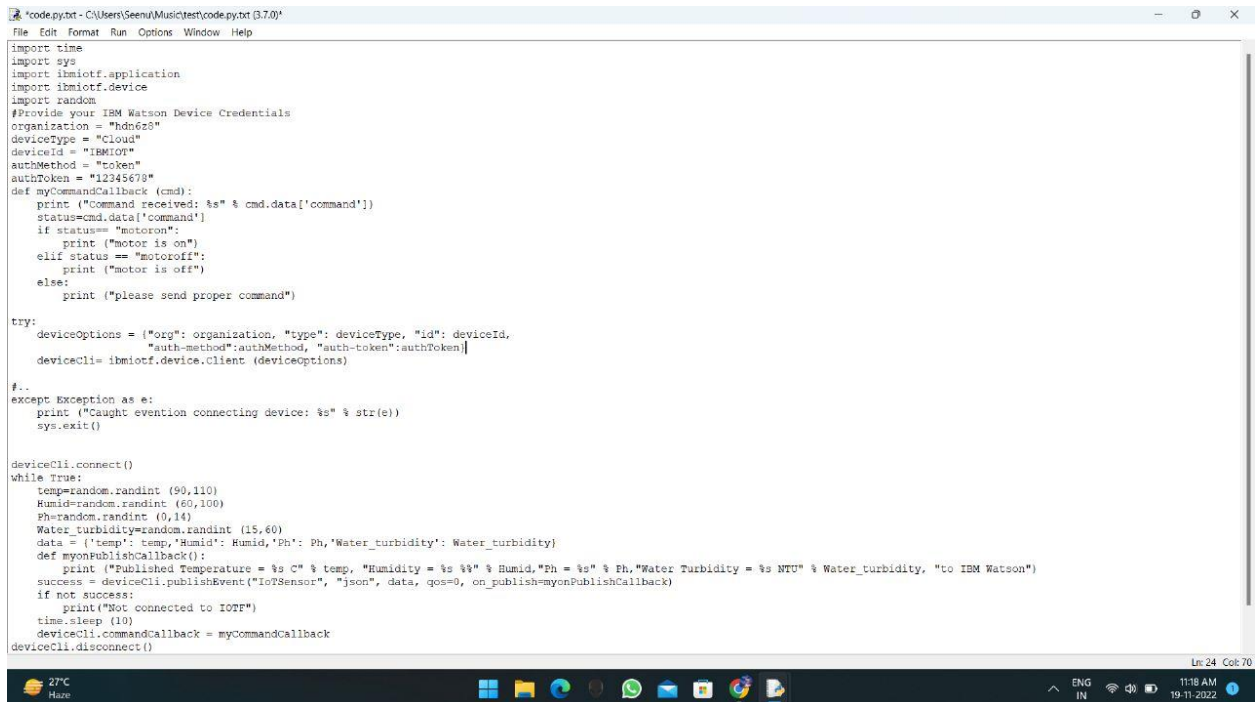


Pre Requisites

Python IDE

Date	05 November 2022
Team ID	PNT2022TMID36156
Project Name	Real Time River Quality Monitoring and Control System.



```
code.py.txt - C:\Users\Seenu\Music\test\code.py.txt (3.7.0)
File Edit Format Run Options Window Help

import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "hdn6z8"
deviceType = "Cloud"
deviceId = "IBMIoT"
authMethod = "token"
authToken = "12345678"

def myCommandCallback(cmd):
    print ("Command received: %s" % cmd.data['command'])
    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": deviceType, "id": deviceId,
                    "auth-method":authMethod, "auth-token":authToken}
    deviceCli= ibmiotf.device.Client (deviceOptions)

    #..
except Exception as e:
    print ("Caught evention connecting device: %s" % str(e))
    sys.exit()

deviceCli.connect()
while True:
    temp=random.randint (90,110)
    Humid=random.randint (60,100)
    Ph=random.randint (9,14)
    Water_turbidity=random.randint (15,60)
    data = {'temp': temp,'Humid': Humid,'Ph': Ph,'Water_turbidity': Water_turbidity}
    def myonPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid,"Ph = %s" % Ph,"Water Turbidity = %s NTU" % Water_turbidity, "to IBM Watson")
    success = deviceCli.publishEvent("IoT8ensor", "json", data, qos=0, on_publish=myonPublishCallback)
    if not success:
        print("Not connected to IOTF")
    time.sleep (10)
    deviceCli.commandCallback = mycommandCallback
deviceCli.disconnect()
```