



Patuakhali Science and Technology University

Course Code: CCE-313

Course Title: ??

Assignment: Home Router Configuration

Submitted to

Dr. Md. Samsuzzaman

Professor

Professor,

Department of Computer and Communication Engineering

Faculty of Computer Science and Engineering

Submitted by

Nayema Ferdoushi

ID: 2102026

Reg. No: 10153

Level: III, Semester: I

Submission Date: 02-07-2025

Contents

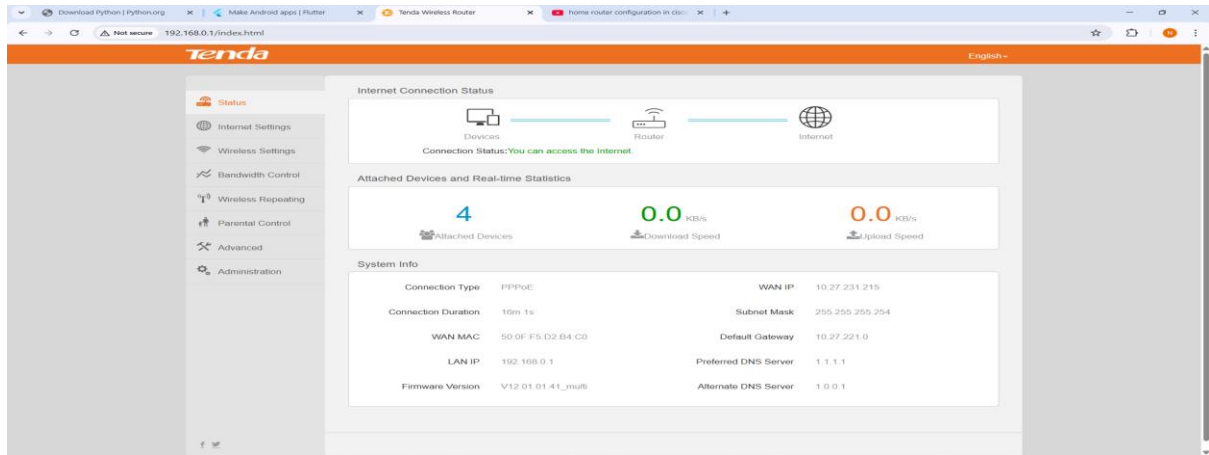
1.	Access the Router Admin Panel	3
1.1	Check the IP address	3
1.2	Open a browser.....	3
1.3	Login.....	3
2.	Wi-Fi Configuration.....	3
2.1	Change Wi-Fi Name and Password	3
2.2	Set Static IP for a Device	3
2.3	Port Forwarding	4
2.3.1	Testing:.....	4
2.4	Enable UPnP	5
2.4.1	Testing:.....	5
2.5	Bandwidth Control Setup.....	6
2.5.1	Testing.....	6
2.6	Parental Control Setup.....	7
2.6.1	Testing.....	7

1. Access the Router Admin Panel

1.1 Check the IP address on the back of the router. My router's IP address is 192.168.0.1

1.2 Open a browser and search <http://192.168.0.1>

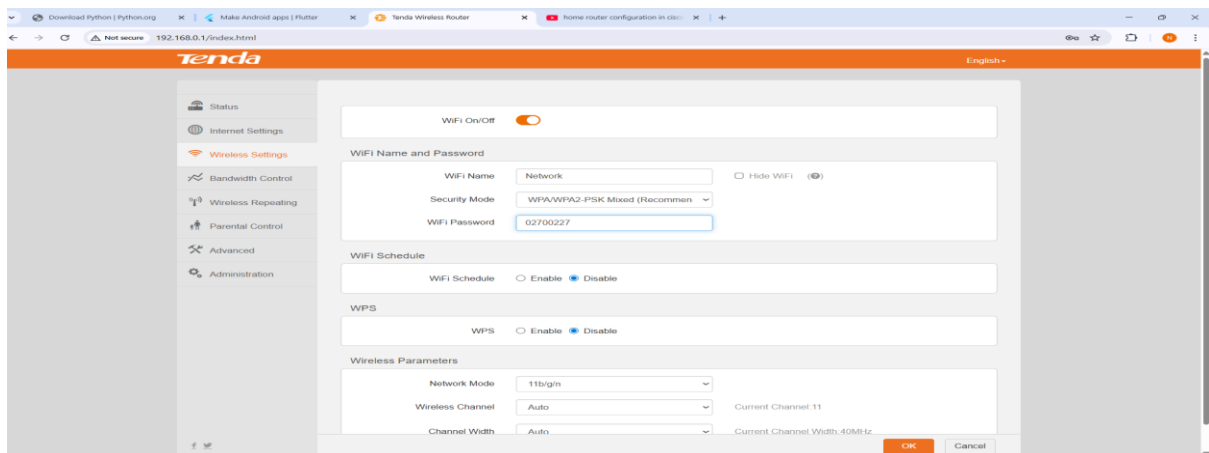
1.3 Login already logged in.



2. Wi-Fi Configuration

2.1 Change Wi-Fi Name and Password

wireless settings > wifi name & WiFi password > ok



2.2 Set Static IP for a Device

- Advanced > Static IP
 - IP address: 192.168.0.104
 - MAC Address: C:\Users\HP>ipconfig /all [on cmd]
- Wireless LAN adapter Wi-Fi 2:

Connection-specific DNS Suffix . : www.tendawifi.com
Description Intel(R) Dual Band Wireless-AC 8265 #2
Physical Address. D4-6D-6D-C3-CC-65
DHCP Enabled. Yes
Autoconfiguration Enabled Yes
Link-local IPv6 Address : fe80::3a96:a7bb:d1a9:75f0%11(Preferred)
IPv4 Address. 192.168.0.104(Preferred)
Subnet Mask 255.255.255.0
Lease Obtained. Wednesday, July 2, 2025 12:23:23 AM
Lease Expires Thursday, July 3, 2025 12:23:23 AM
Default Gateway 192.168.0.1

```
Microsoft Windows [Version 10.0.22000.2538]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>ipconfig /all

Windows IP Configuration

Host Name . . . . . DESKTOP-KQHE5IA
Primary Dns Suffix . . . . . 
Node Type . . . . . Hybrid
IP Routing Enabled. . . . . No
WINS Proxy Enabled. . . . . No
DNS Suffix Search List. . . . . www.tendawifi.com

Ethernet adapter Ethernet 2:

Media State . . . . . Media disconnected
Connection-specific DNS Suffix . : 
Description . . . . . Intel(R) Ethernet Connection (4) I219-LM #2
Physical Address. . . . . D4-6D-6D-C3-CC-65
DHCP Enabled. . . . . Yes
Autoconfiguration Enabled . . . . Yes

Wireless LAN adapter Local Area Connection* 11:

Media State . . . . . Media disconnected
Connection-specific DNS Suffix . : 
Description . . . . . Microsoft Wi-Fi Direct Virtual Adapter #3
Physical Address. . . . . D4-6D-6D-C3-CC-66
DHCP Enabled. . . . . Yes
Autoconfiguration Enabled . . . . Yes

Wireless LAN adapter Local Area Connection* 12:

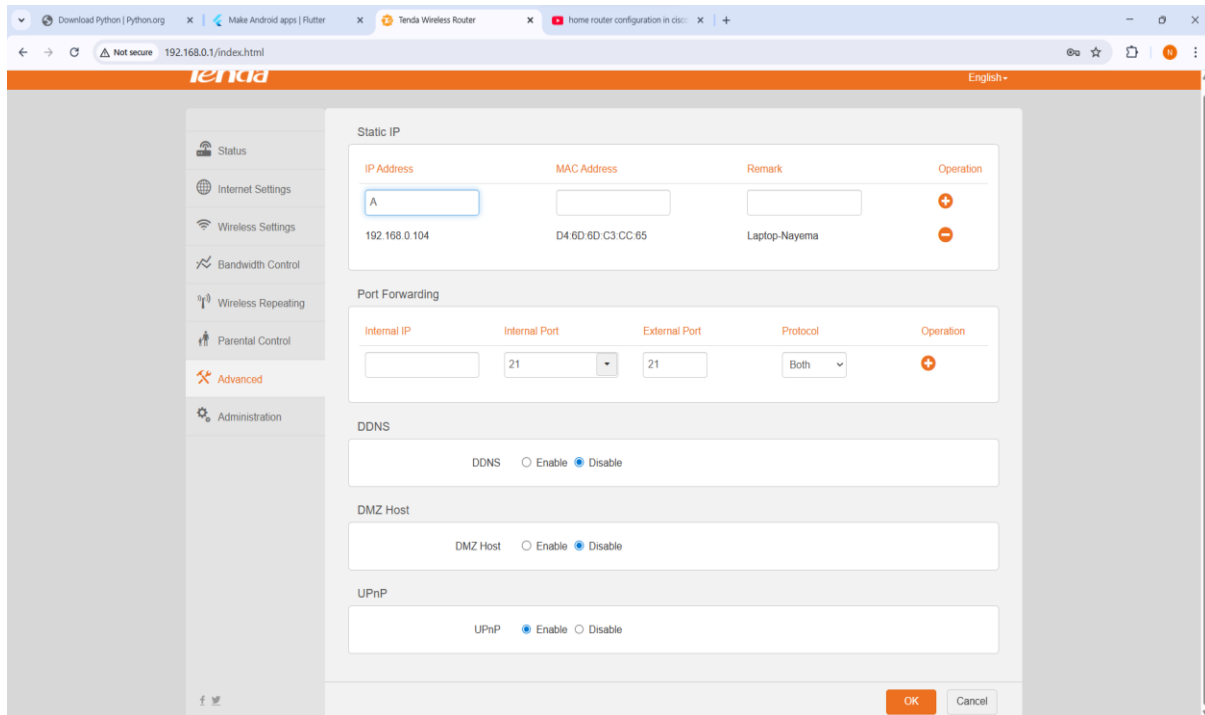
Media State . . . . . Media disconnected
Connection-specific DNS Suffix . : 
Description . . . . . Microsoft Wi-Fi Direct Virtual Adapter #4
Physical Address. . . . . D6-6D-6D-C3-CC-65
DHCP Enabled. . . . . Yes
Autoconfiguration Enabled . . . . Yes

Wireless LAN adapter Wi-Fi 2:

Connection-specific DNS Suffix . : www.tendawifi.com
Description . . . . . Intel(R) Dual Band Wireless-AC 8265 #2
Physical Address. . . . . D4-6D-6D-C3-CC-65
DHCP Enabled. . . . . Yes
Autoconfiguration Enabled . . . . Yes
Link-local IPv6 Address . . . . : fe80::3a96:a7bb:d1a9:75f0%11(Preferred)
IPv4 Address. . . . . 192.168.0.104(Preferred)
Subnet Mask . . . . . 255.255.255.0
Lease Obtained. . . . . Wednesday, July 2, 2025 12:23:23 AM
Lease Expires . . . . . Thursday, July 3, 2025 12:23:23 AM
Default Gateway . . . . . 192.168.0.1
DHCP Server . . . . . 192.168.0.1
DHCPv6 IAID . . . . . 232025453
DHCPv6 Client DUID. . . . . 00-01-00-01-2F-6E-BD-B6-B4-B6-B6-BA-SC-A4
DNS Servers . . . . . 192.168.0.1
NetBIOS over Tcpip. . . . . Enabled
```

DHCP Server : 192.168.0.1
DHCPv6 IAID : 232025453
DHCPv6 Client DUID. : 00-01-00-01-2F-6E-BD-B6-B4-B6-86-8A-5C-A4
DNS Servers : 192.168.0.1
NetBIOS over Tcpip. : Enabled

- iv. Remark: Laptop-Nayema or something that like you.
- v. Click on plus then ok.



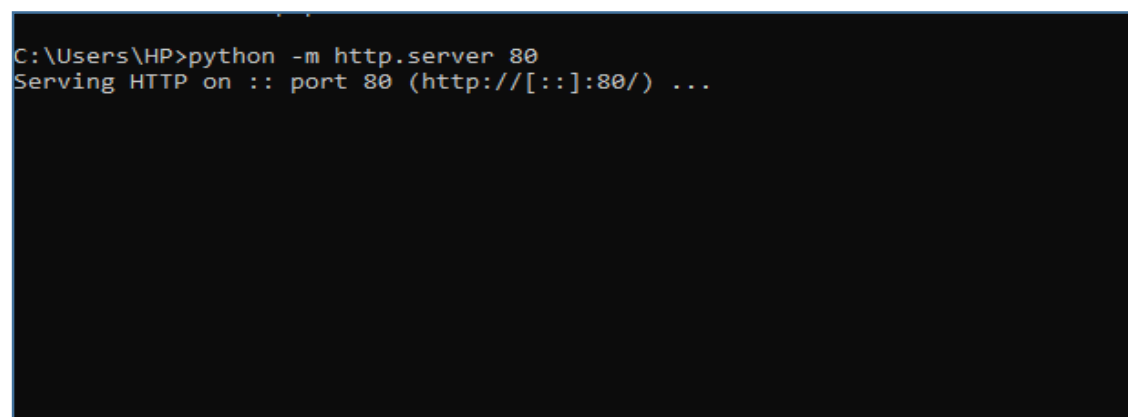
2.3 Port Forwarding

- i. Advanced > DMZ > Enable > Insert IP Address > ok
- ii. Internal IP: 192.168.0.104
- iii. Internal Port: 80
- iv. Protocol: TCP/UDP/ Both
- v. External Port: 80

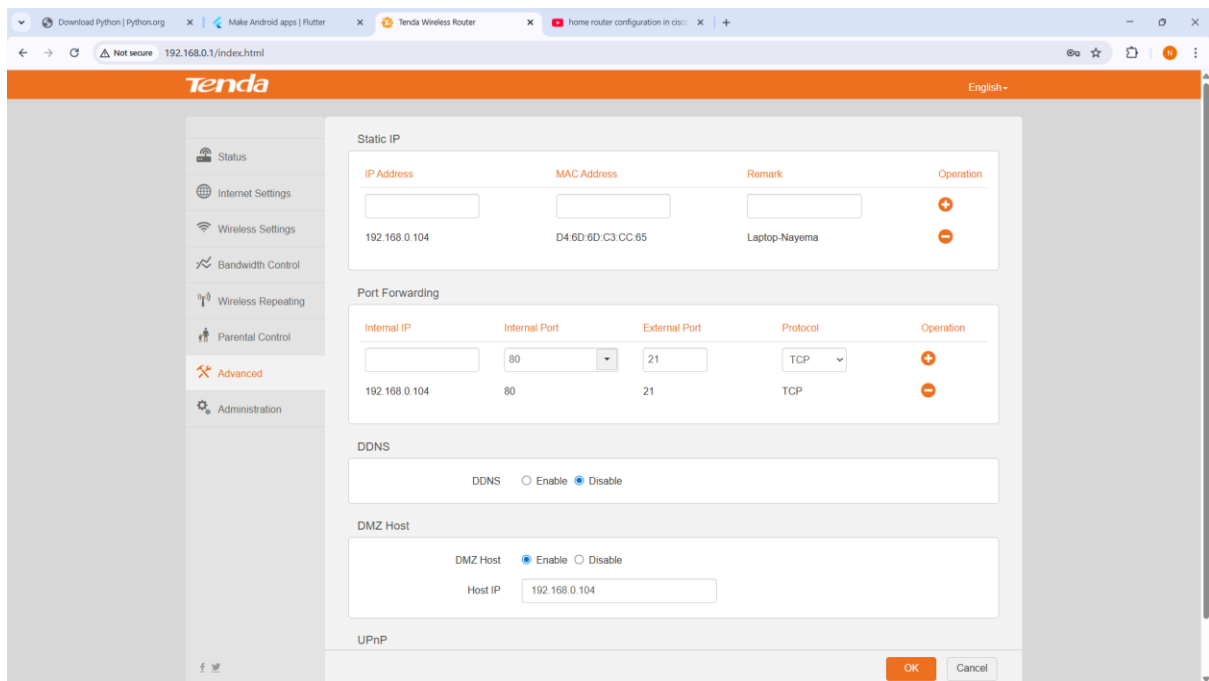
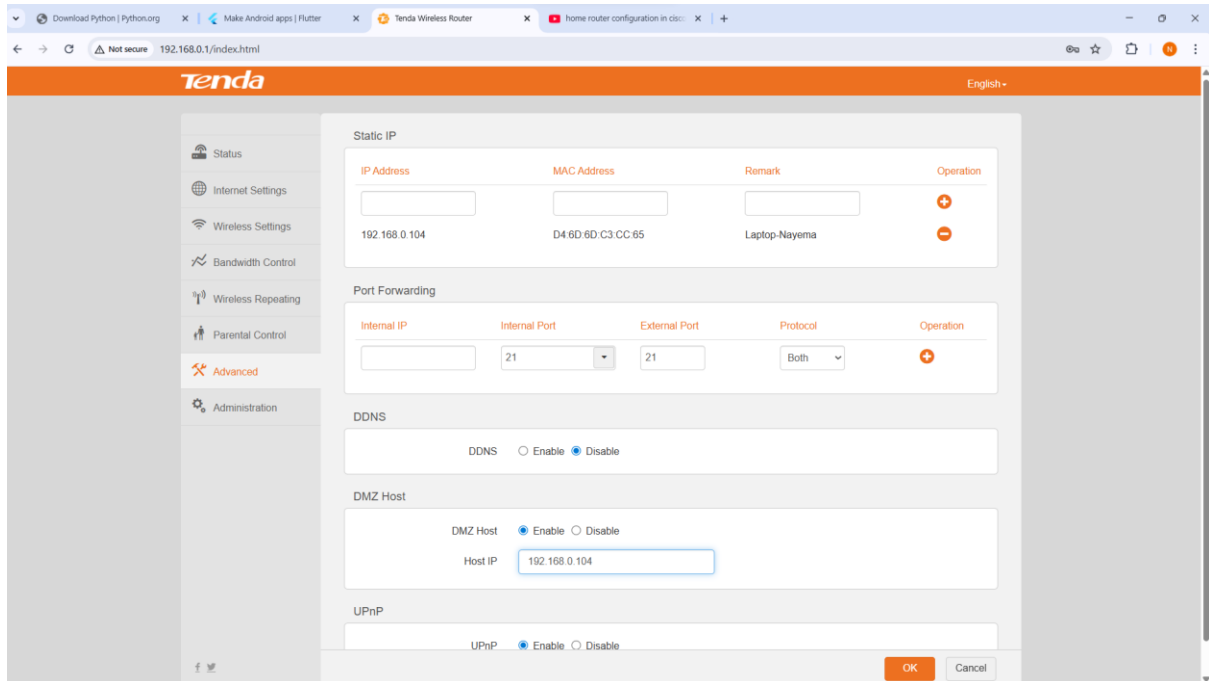
2.3.1 Testing:

In command prompt (Windows):

python -m http.server 80



check both boxes > allow access



2.4 Enable UPnP

Enabled to allow automatic port mapping. (Zoom, Skype etc.)

- advanced > UnPnP > Enable > Ok

2.4.1 Testing:

- windows+R -> type cmd -> enter.
- netstat -an | find ":1900"

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.22000.2538]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>netstat -an | find ":1900"
UDP    127.0.0.1:1900      *.*
UDP    192.168.0.104:1900  *.*
UDP    [::1]:1900         *.*
UDP    [fe80::3a96:a7bb:d1a9:75f0%11]:1900  *.*

C:\Users\HP>
```

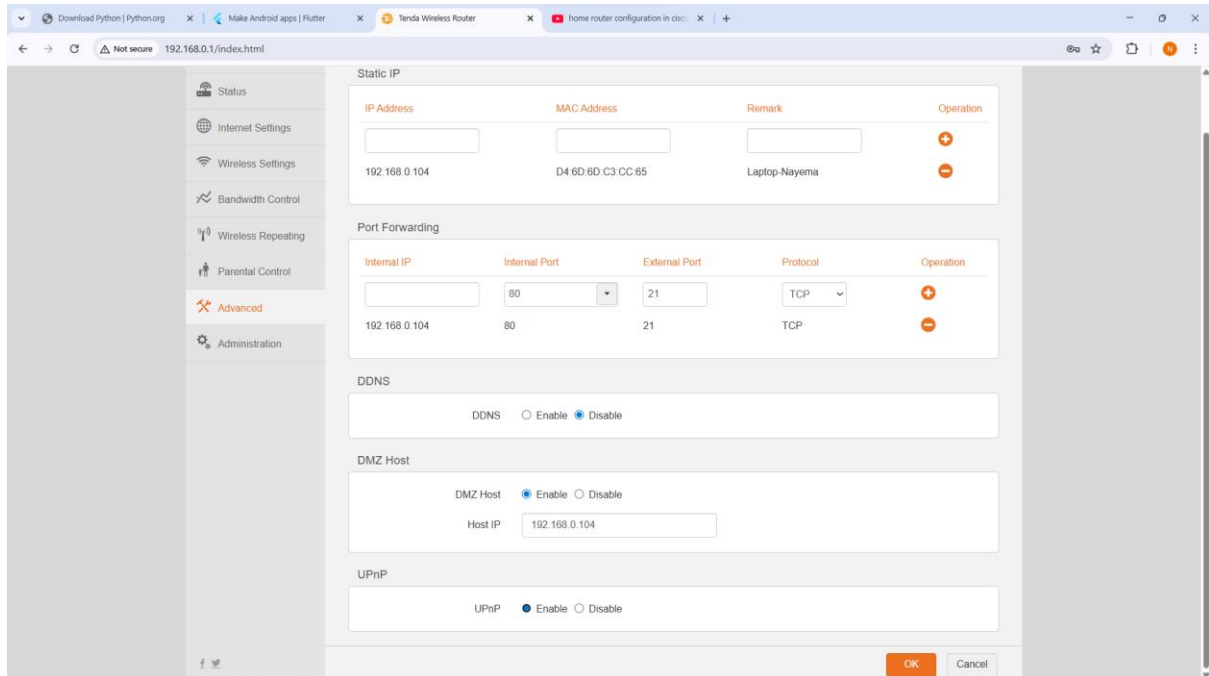
```
C:\Users\HP>netstat -an | find ":1900"
```

```
UDP 127.0.0.1:1900 *.*
```

```
UDP 192.168.0.104:1900 *.*
```

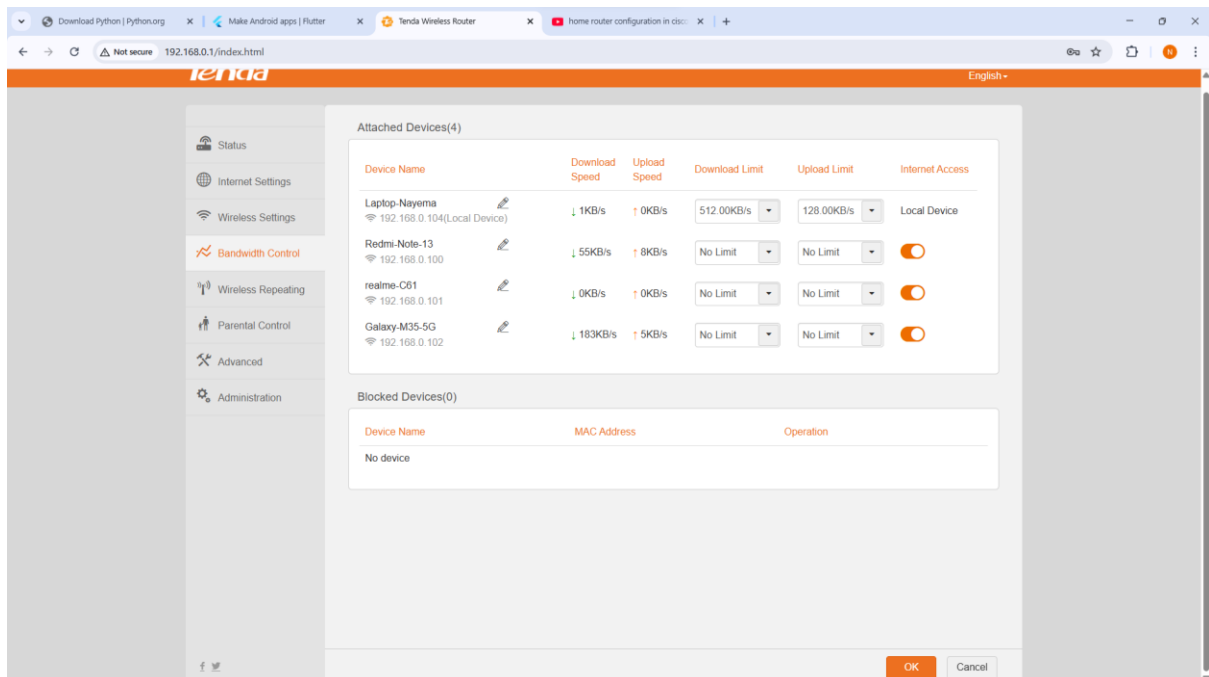
```
UDP [::1]:1900 *.*
```

```
UDP [fe80::3a96:a7bb:d1a9:75f0%11]:1900 *.*
```

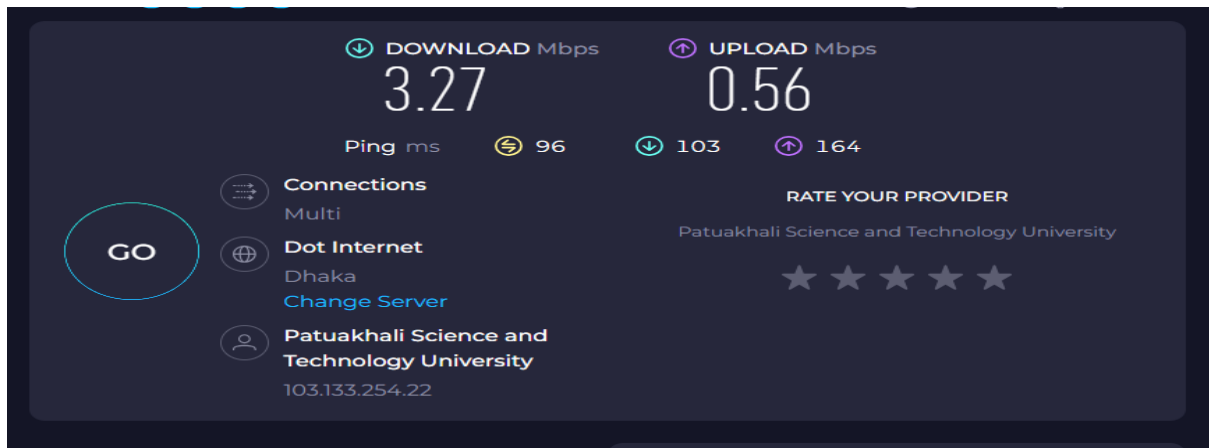


2.5 Bandwidth Control Setup

Bandwidth Control > Laptop-Nayema > edit > set upload & download bandwidth > ok.

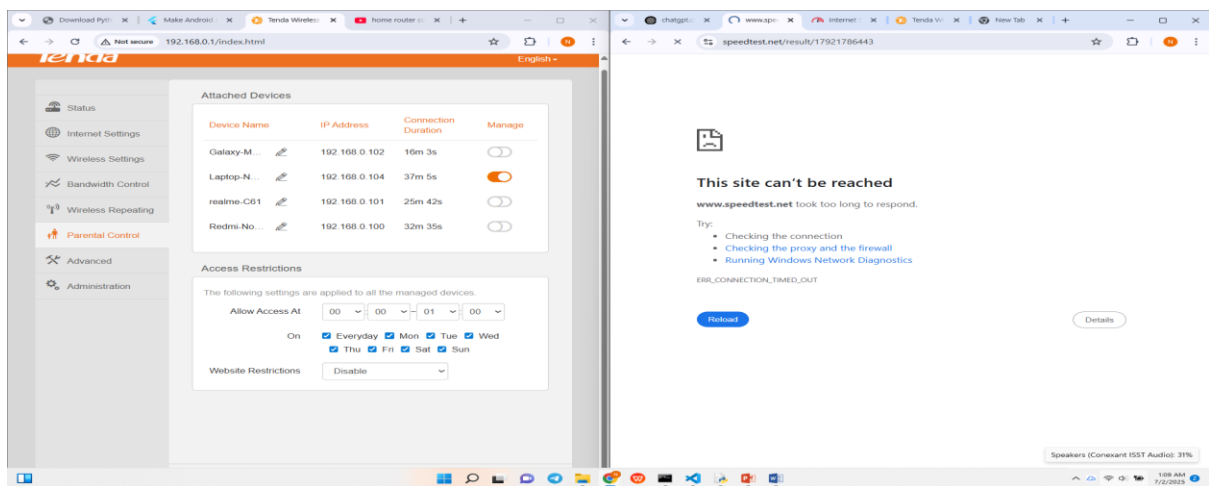


2.5.1 Testing

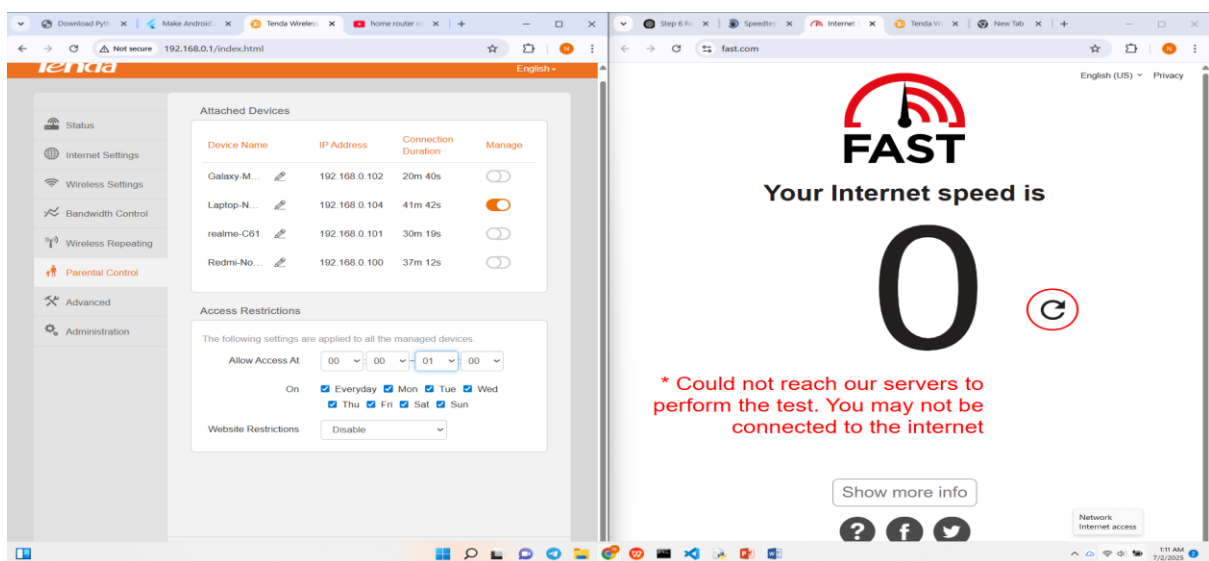


2.6 Parental Control Setup

Parental Control > Manage on which device's access want to change. > Access Restrictions > set > ok.



2.6.1 Testing



"Networking is not just cables and signals; it's how devices collaborate to solve problems."

The end 🌸