ASSIGNMENT FORMAT

COURSE	Networking Fundamentals	**ASSIGNMENT NO**	3
MODULE	IP/MAC	**ASSIGNMENT DATE**	21/08/2024
STUDENT NAME	Konganti chaithanya kumar	**SUBMISSION DATE**	21/08/2024

Q1. Convert the following decimal to binary Numbers

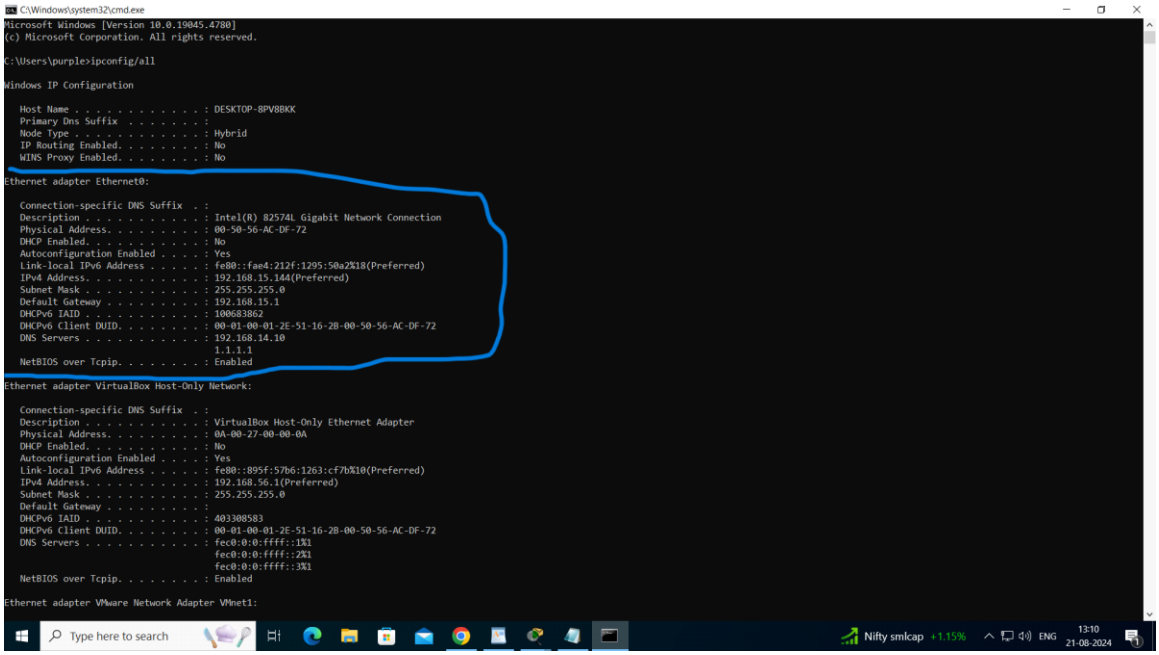
Decimal	Binary
192	11000000
248	11111000
128	10000000
224	11100000

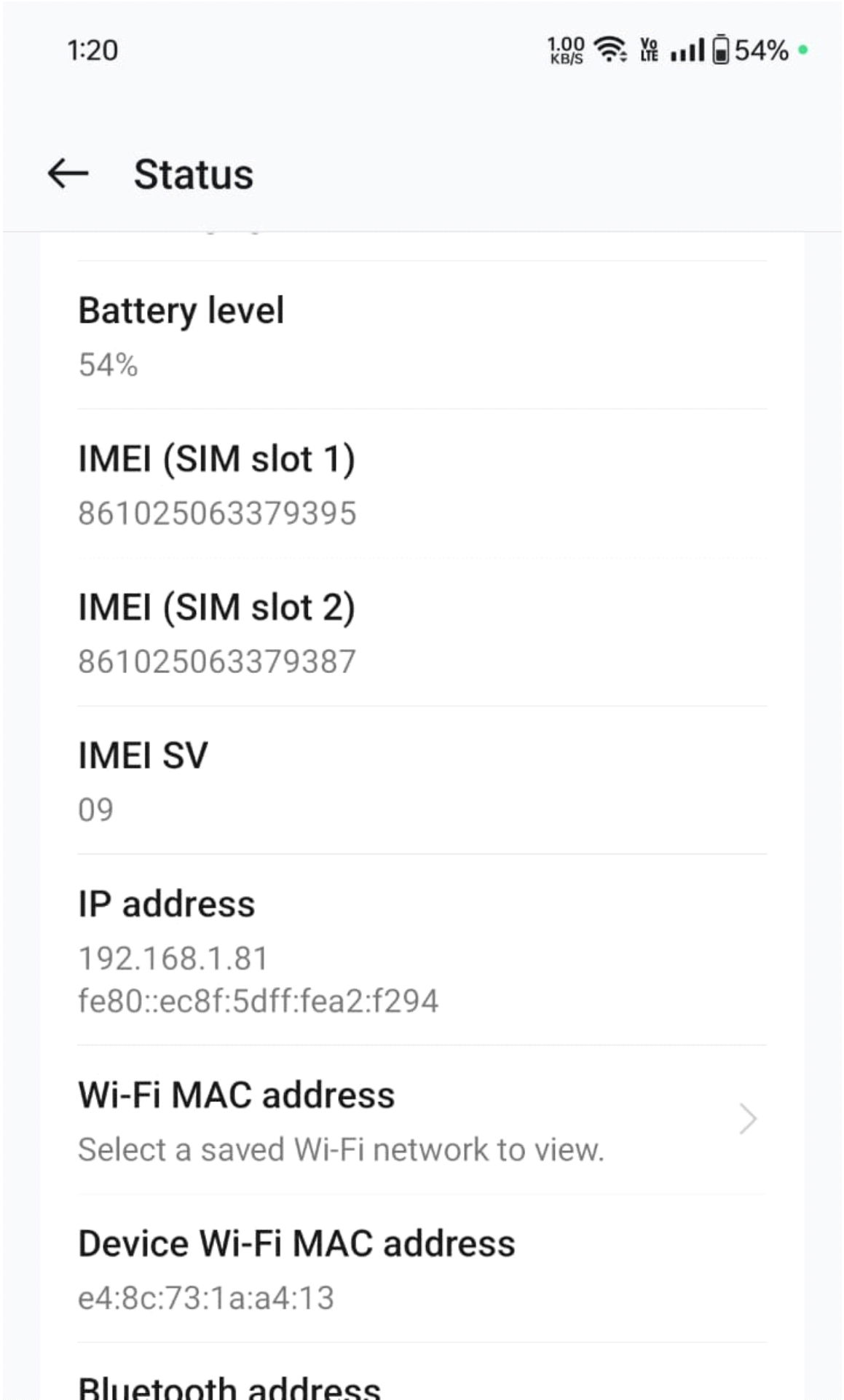
Q2. Convert the following hexadecimal numbers to decimal numbers

Hexadecimal	Decimal
9C	156
AE	174
DF	223
2B	43

Q3. Find the IP address, MAC address, Subnet mask, Default Gateway, DNS and public IP of your device/PC and mobile.

Ans:

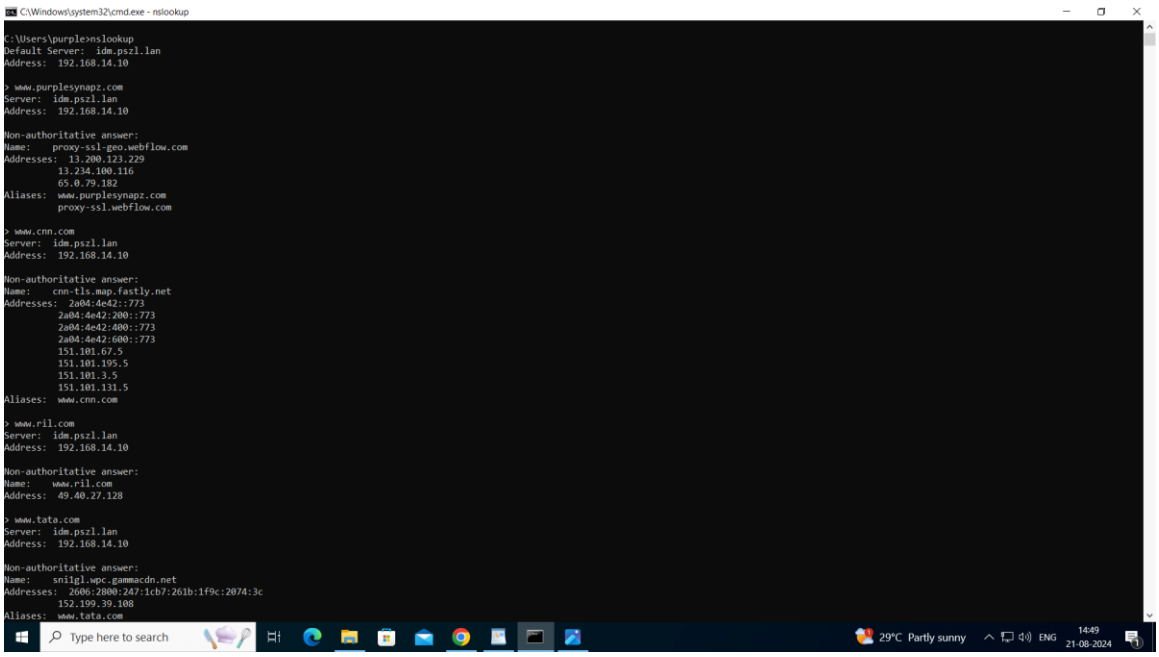

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19045.4780]
(c) Microsoft Corporation. All rights reserved.
C:\Users\purple>ipconfig/all
Windows IP Configuration
Host Name . . . . . : DESKTOP-8PV8BKK
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
Ethernet adapter Ethernet0:
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) 82574L Gigabit Network Connection
Physical Address. . . . . : 00-50-56-AC-DF-72
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::fae4:212f:1295:50a2%18(Preferred)
IPv4 Address. . . . . : 192.168.15.144(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.15.1
DHCPv6 IAID . . . . . : 100683862
DHCPv6 Client DUID. . . . . : 00-01-00-01-2E-51-16-2B-00-50-56-AC-DF-72
DNS Servers . . . . . : 192.168.14.10
1.1.1.1
NetBIOS over Tcpip. . . . . : Enabled
Ethernet adapter VirtualBox Host-Only Network:
Connection-specific DNS Suffix . :
Description . . . . . : VirtualBox Host-Only Ethernet Adapter
Physical Address. . . . . : 0A-00-27-00-00-0A
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::895f:57b6:1263:cf7b%10(Preferred)
IPv4 Address. . . . . : 192.168.56.1(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
DHCPv6 IAID . . . . . : 403308583
DHCPv6 Client DUID. . . . . : 00-01-00-01-2E-51-16-2B-00-50-56-AC-DF-72
DNS Servers . . . . . : fec0:0:0:ffff::1%1
fec0:0:0:ffff::2%1
fec0:0:0:ffff::3%1
NetBIOS over Tcpip. . . . . : Enabled
Ethernet adapter VMware Network Adapter VMnet1:
Type here to search
Nifty smlcap +1.15%
ENG
13:10
21-08-2024

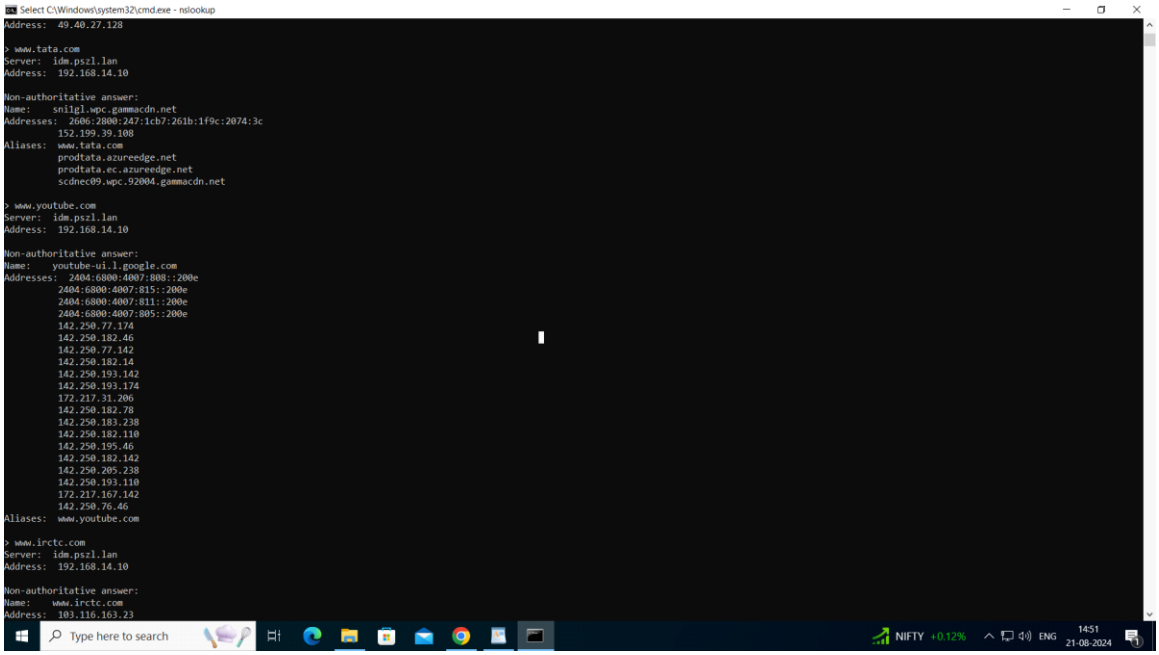

1:20
1.00 KB/S
54%
Status
Battery level
54%
IMEI (SIM slot 1)
861025063379395
IMEI (SIM slot 2)
861025063379387
IMEI SV
09
IP address
192.168.1.81
fe80::ec8f:5dff:fea2:f294
Wi-Fi MAC address
Select a saved Wi-Fi network to view.
Device Wi-Fi MAC address
e4:8c:73:1a:a4:13
Bluetooth address

Q4. Find the IP address and to which RIR the following websites belong to:

- www.purplesynapz.com
- www.cnn.com
- Website: Reliance Industries
- Website: Tata Group of Industries
- www.youtube.com
- www.irctc.com

Ans:



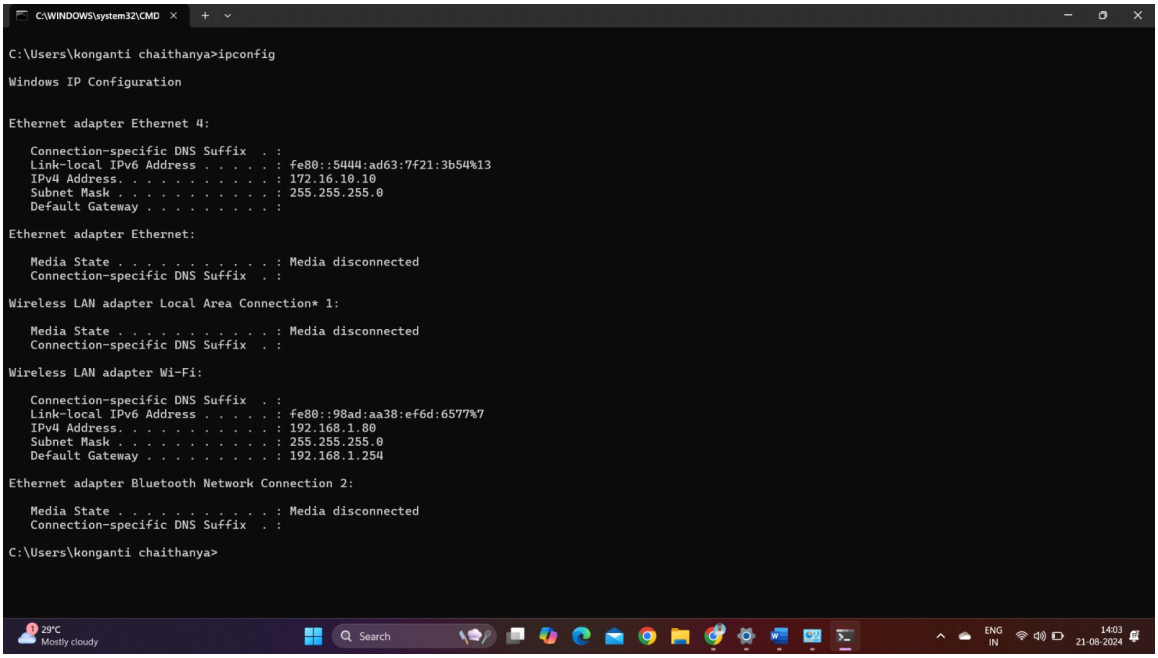


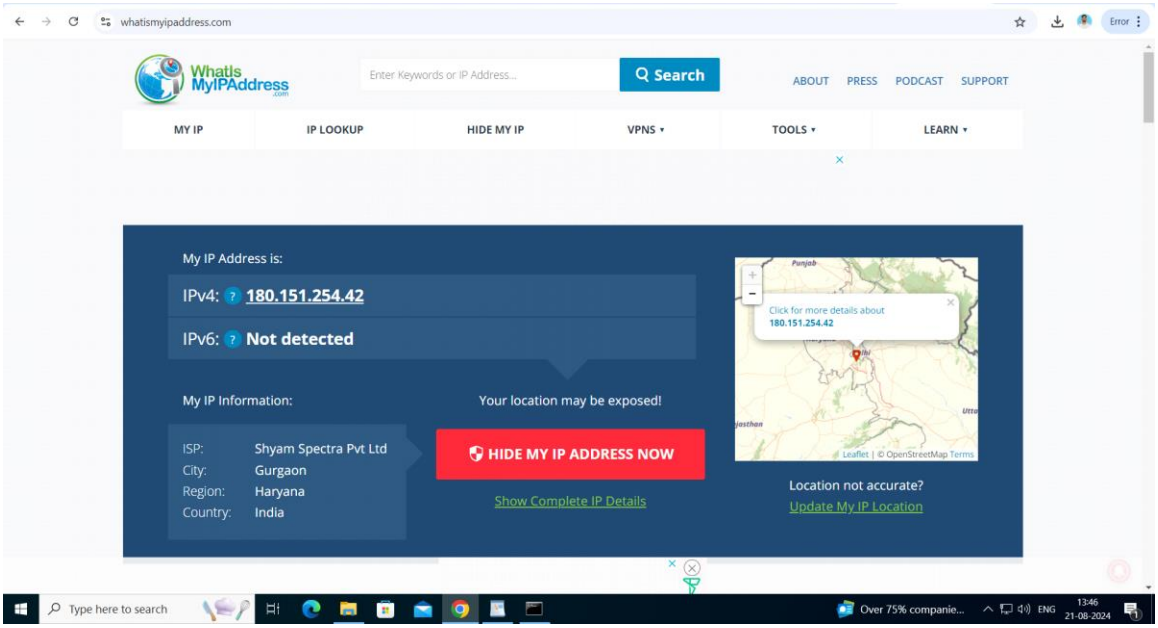
Q5. Find the IP Address, MAC address, Subnet Mask, Default Gateway, DNS and Public IP of any 2 other devices at your home and list the findings. Now disconnect internet connection in both devices and try to establish connectivity between 2 devices and share your findings.

Ans:

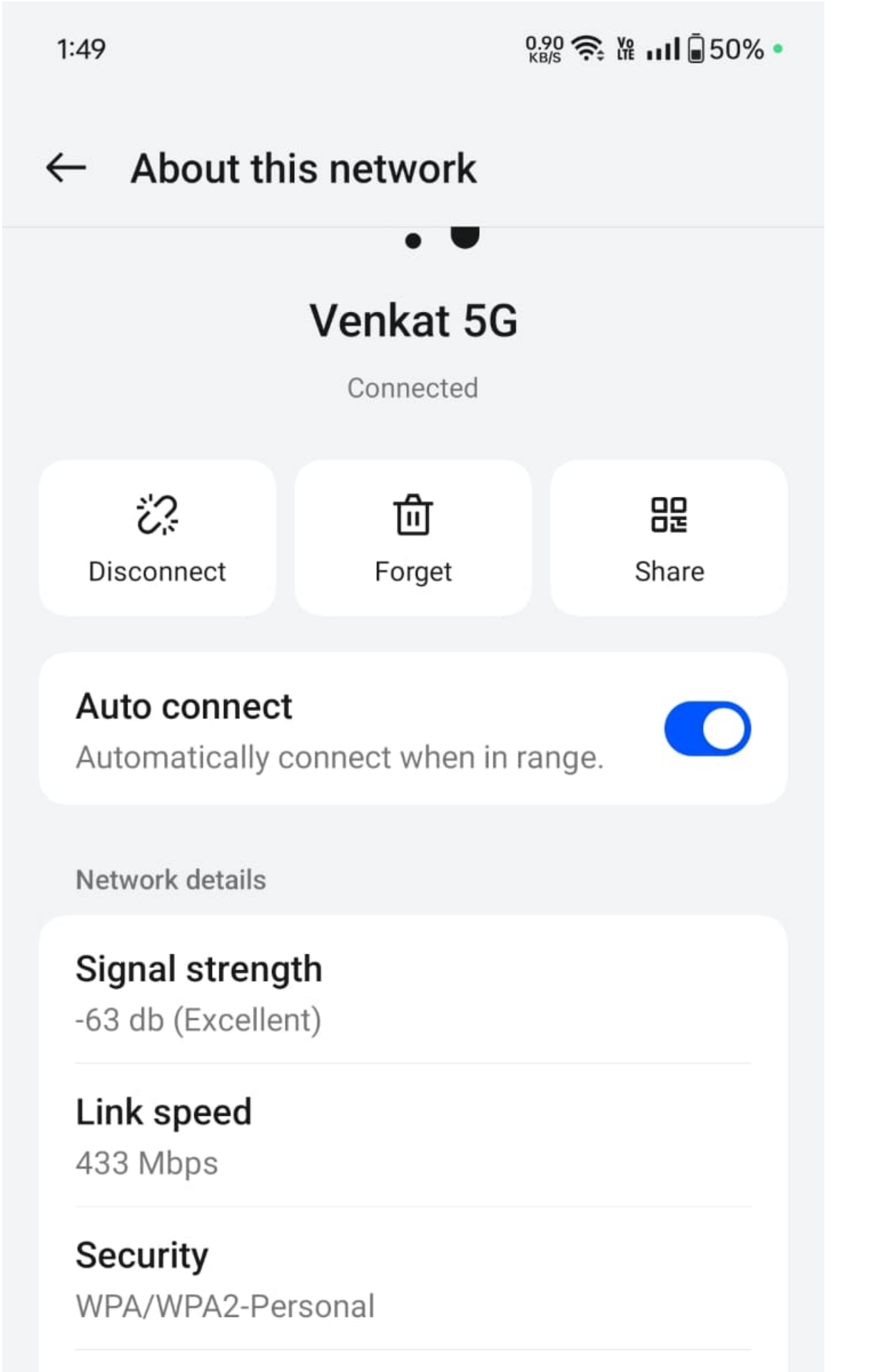
connect Internet Connection

On a Windows PC:


C:\WINDOWS\system32\CMD
C:\Users\konganti chaithanya>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet 4:
Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . . : fe80::5444:ad63:7f21:3b54%13
IPv4 Address. . . . . : 172.16.10.10
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
Ethernet adapter Ethernet:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 1:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Wireless LAN adapter Wi-Fi:
Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . . : fe80::98ad:aa38:ef6d:6577%7
IPv4 Address. . . . . : 192.168.1.80
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.254
Ethernet adapter Bluetooth Network Connection 2:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
C:\Users\konganti chaithanya>
29°C
Mostly cloudy
Search
ENG
IN
14:03
21-08-2024

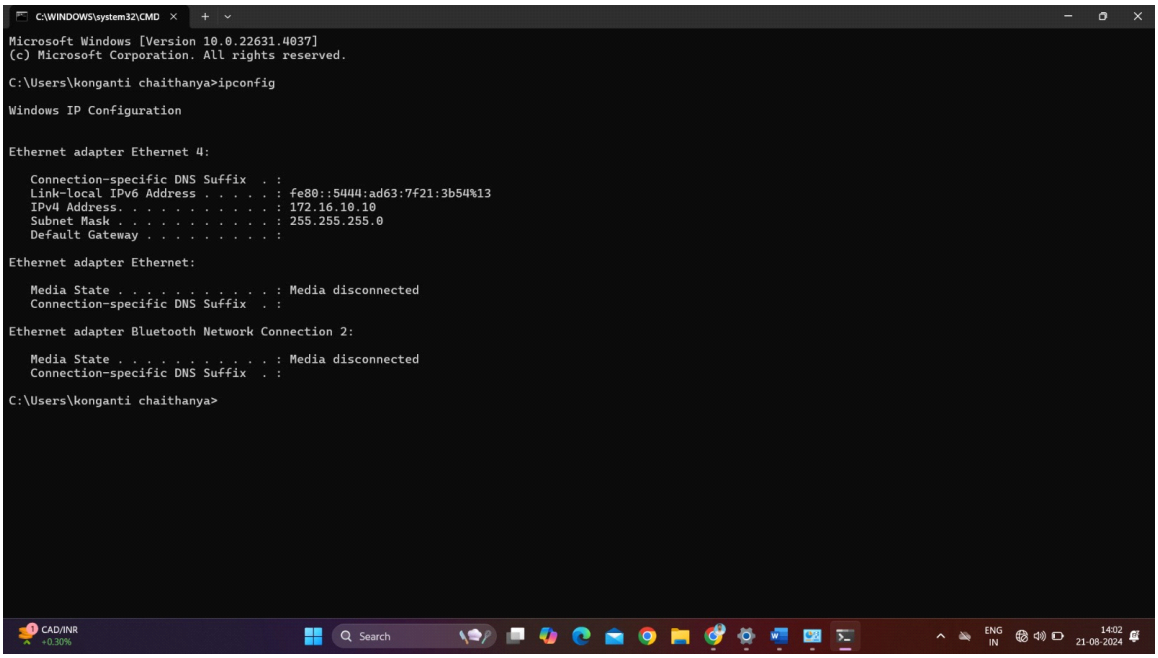

whatismyipaddress.com
WhatIs MyIPAddress
Enter Keywords or IP Address...
Search
ABOUT
PRESS
PODCAST
SUPPORT
MY IP
IP LOOKUP
HIDE MY IP
VPNS
TOOLS
LEARN
My IP Address is:
IPv4: 180.151.254.42
IPv6: Not detected
My IP Information:
ISP: Shyam Spectra Pvt Ltd
City: Gurgaon
Region: Haryana
Country: India
Your location may be exposed!
HIDE MY IP ADDRESS NOW
Show Complete IP Details
Click for more details about 180.151.254.42
Location not accurate?
Update My IP Location
Type here to search
Over 75% companie...
ENG
13:46
21-08-2024

On an Android Device:

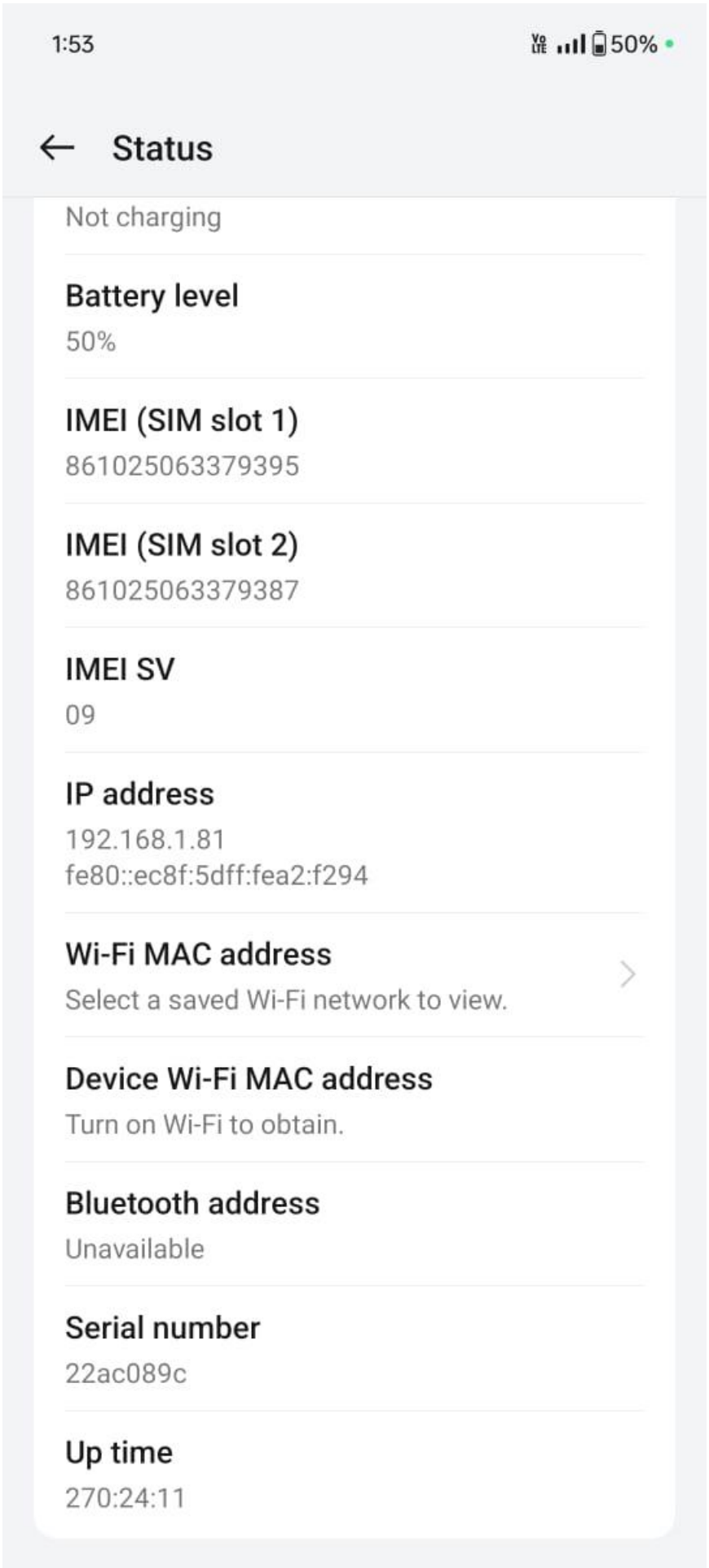

1:49
0.90 KB/S
50%
About this network
Venkat 5G
Connected
Disconnect
Forget
Share
Auto connect
Automatically connect when in range.
Network details
Signal strength
-63 db (Excellent)
Link speed
433 Mbps
Security
WPA/WPA2-Personal

Disconnect Internet Connection

On a Windows PC:



On an Android Device:


1:53
50%
Status
Not charging
Battery level
50%
IMEI (SIM slot 1)
861025063379395
IMEI (SIM slot 2)
861025063379387
IMEI SV
09
IP address
192.168.1.81
fe80::ec8f:5dff:fea2:f294
Wi-Fi MAC address
Select a saved Wi-Fi network to view.
Device Wi-Fi MAC address
Turn on Wi-Fi to obtain.
Bluetooth address
Unavailable
Serial number
22ac089c
Up time
270:24:11