**Practical no. 1**

**Aim:** Using, linux-terminal or Windows-cmd, execute following networking commands and note the output: ping, traceroute, netstat, arp, ipconfig, Getmac, hostname, NSLookUp, pathping, SystemInfo.

**Date:** **Roll no.:** 03 **sign:**

**Command of Network Detection**

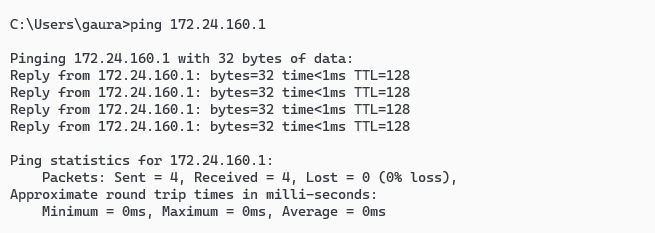
1. **Ipconfig**

**Output:**

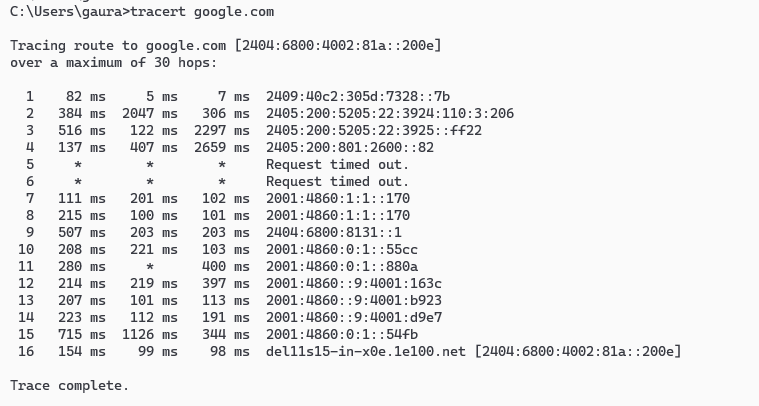


1. **ping**

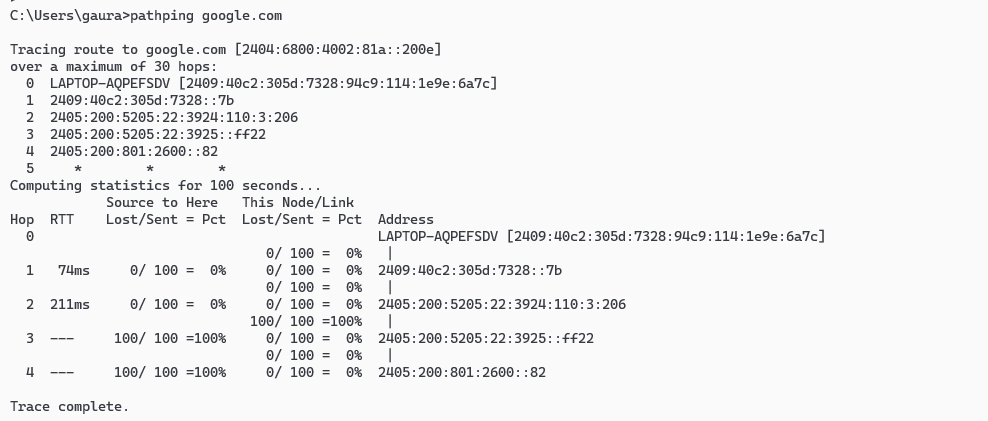
**Output:**



1. **tracert google.com**

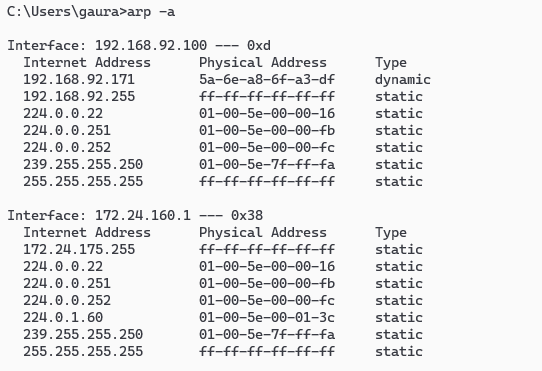
**Output:**

1. **pathping google.com**

**Output:**

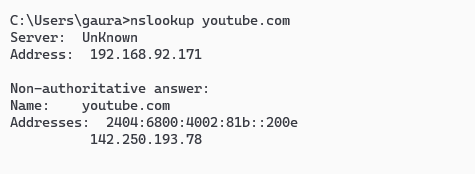
1. **ARP -A**

**Output:**

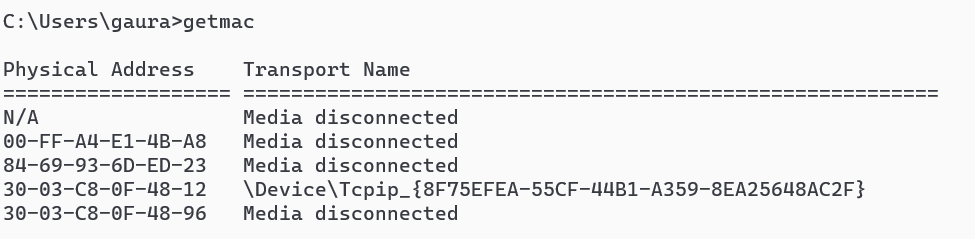


1. **Nslookup youtube.com**

**Output:**

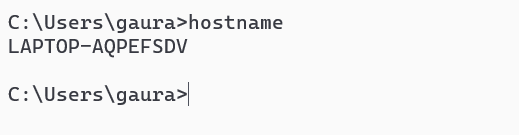


1. **Getmac**

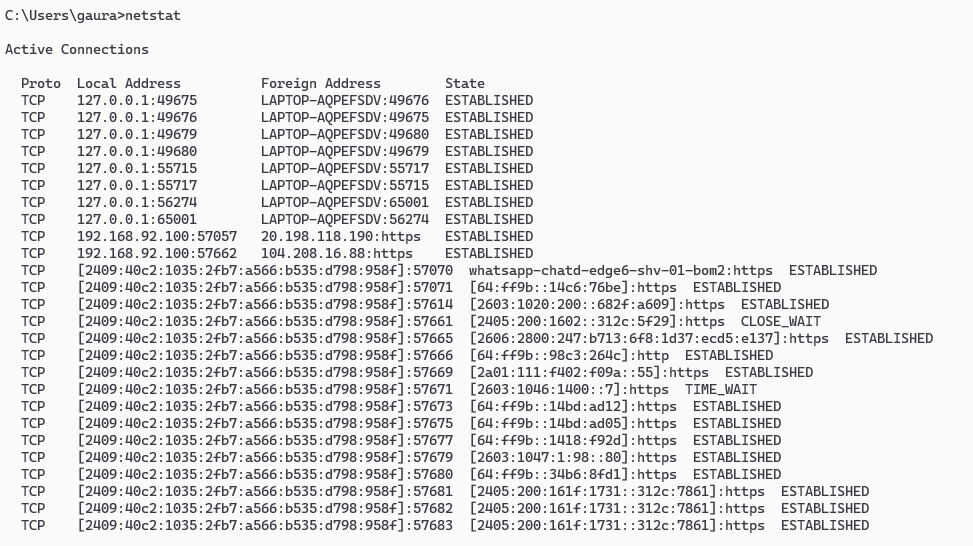
**Output:**

1. **Hostname**

**Output:**

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1. **netstat**

**Output:**

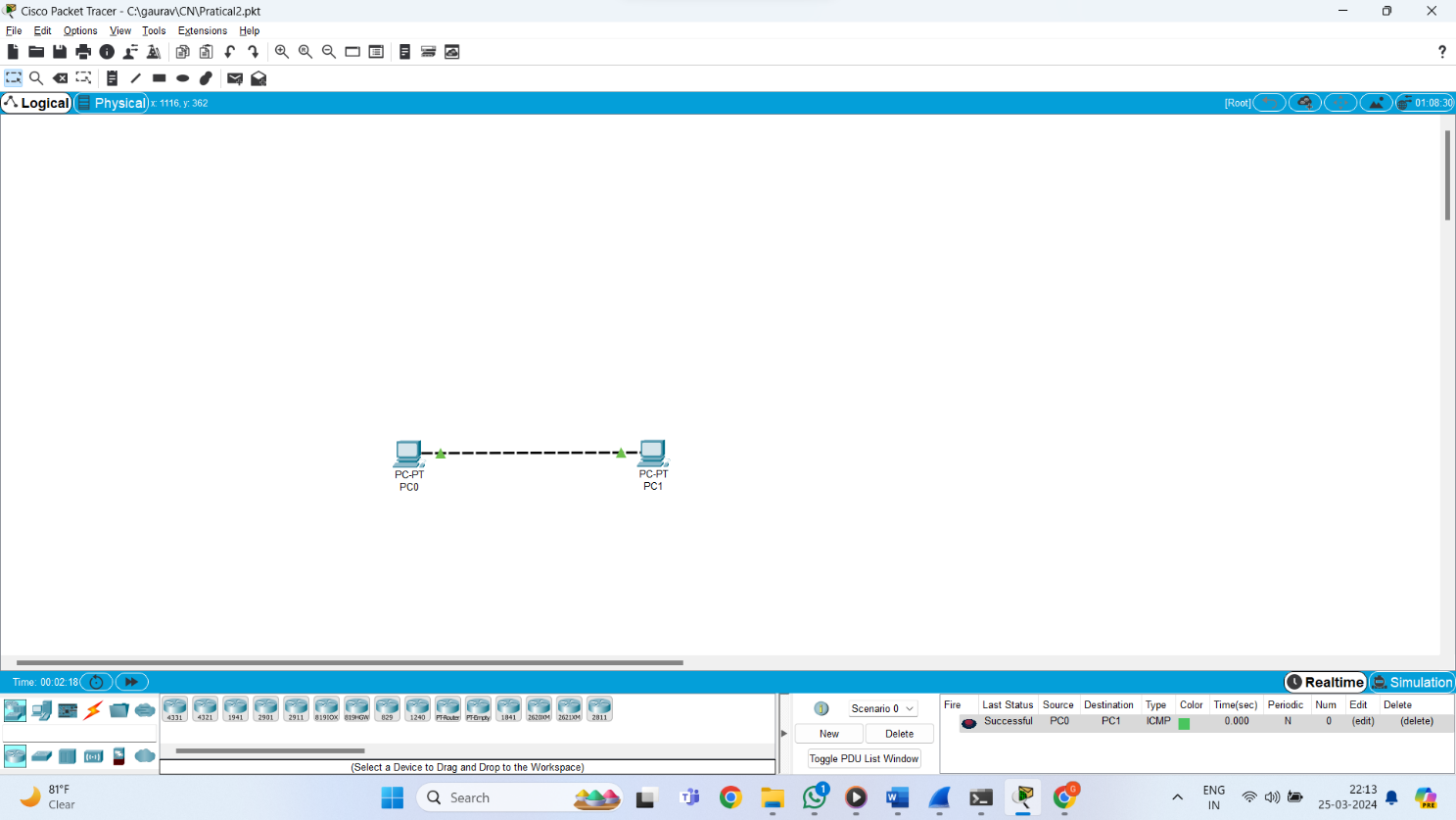
**Practical no. 2**

**Aim:** Using Packet Tracer, create a basic network of two computers using appropriate network wire. Use Static IP address allocation and show connectivity

**Date:** **Roll no.:** 03 **sign:**

**Cisco Packet Tracer**

**Output:**



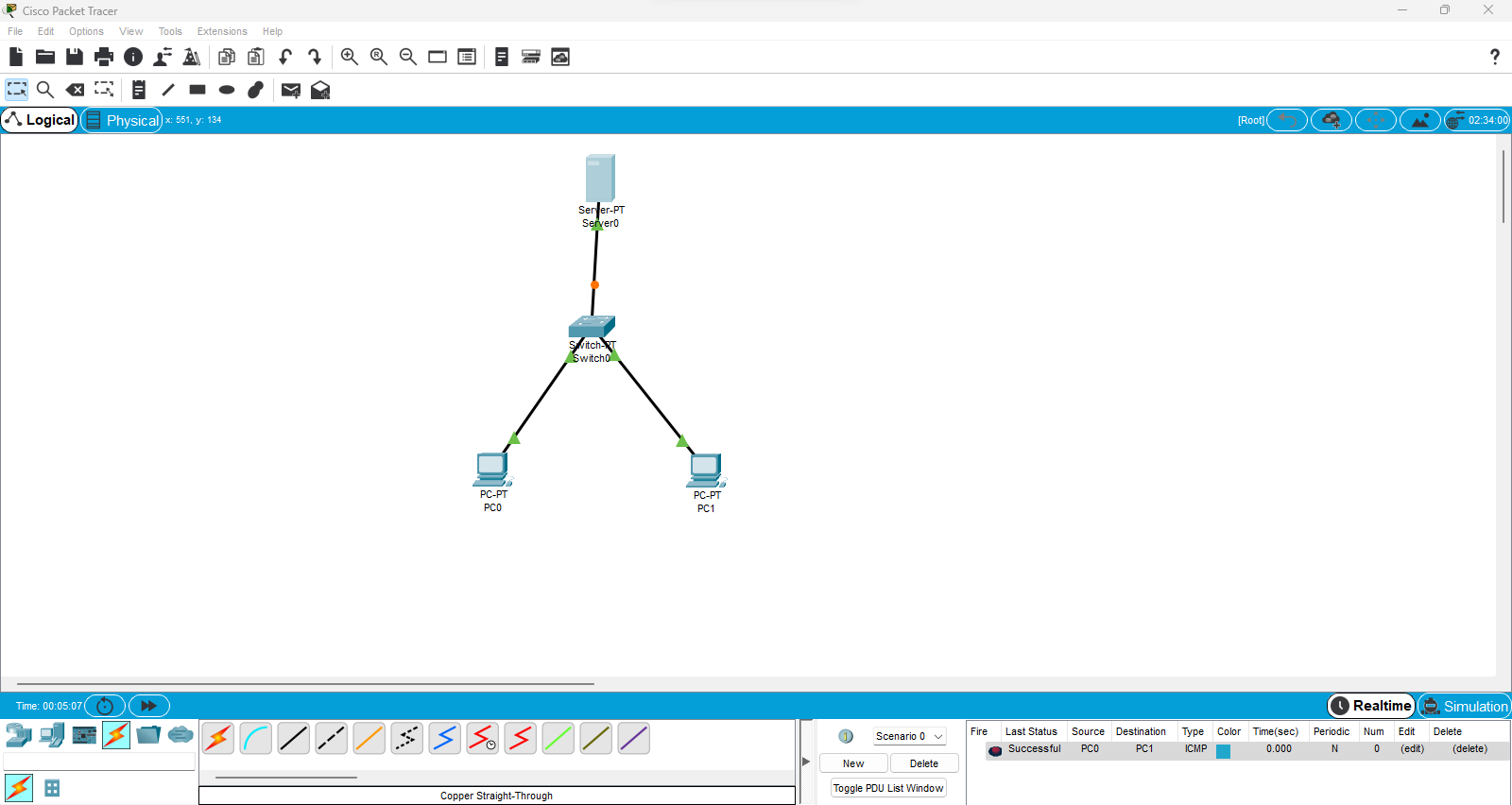
**Practical no. 3**

**Aim:** Using Packet Tracer, create a basic network of One server and two computers using appropriate network wire. Use Dynamic IP address allocation and show connectivity

**Date:** **Roll no.:** 03 **sign:**

**Cisco Packet Tracer**

**Output:**

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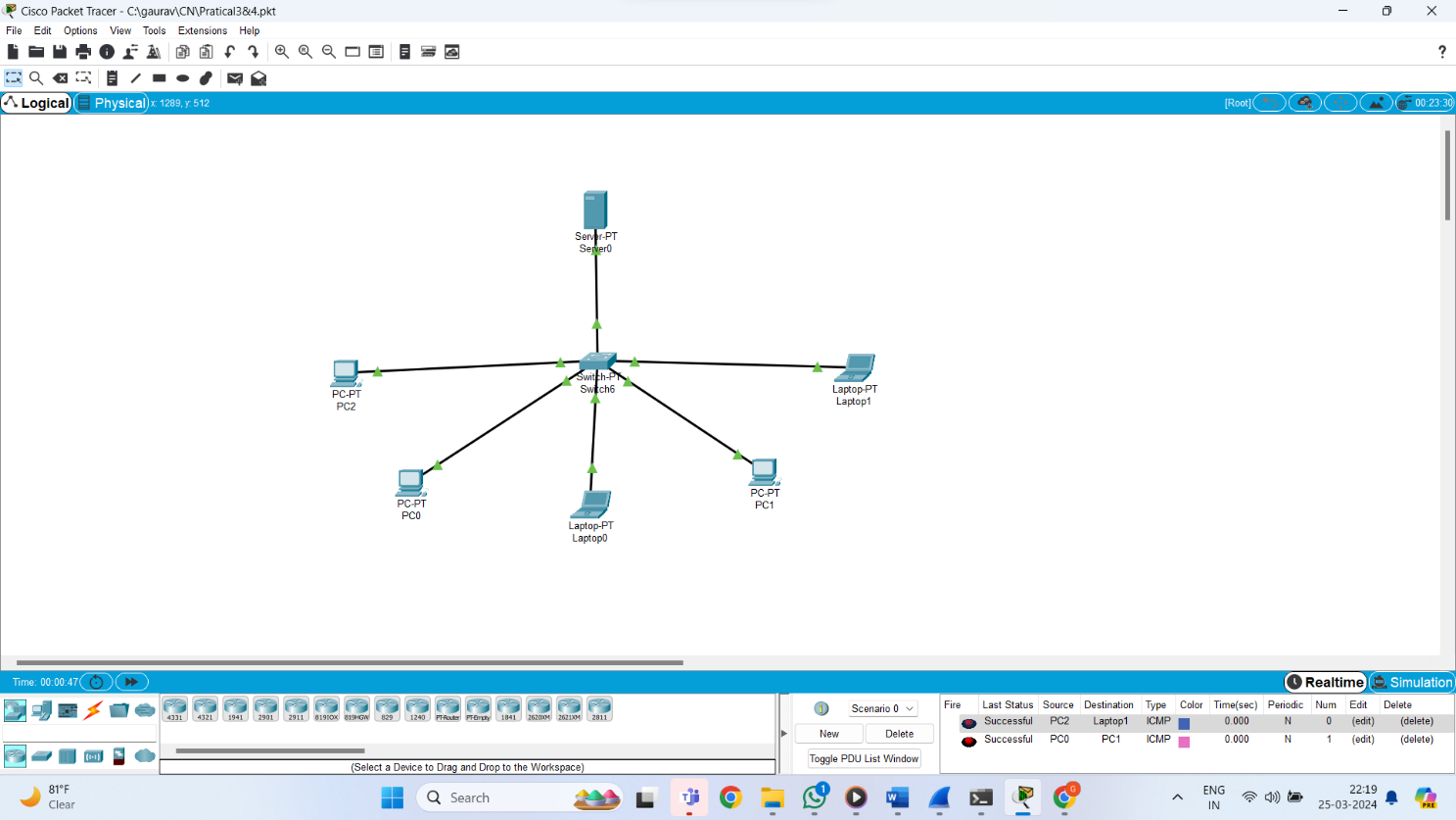
**Practical no. 4**

**Aim:** Using Packet Tracer, create a basic network of One server and two computers and two mobile / movable devices using appropriate network wire. Show connectivity

**Date:** **Roll no.:** 03 **sign:**

**Cisco Packet Tracer**

**Output:**



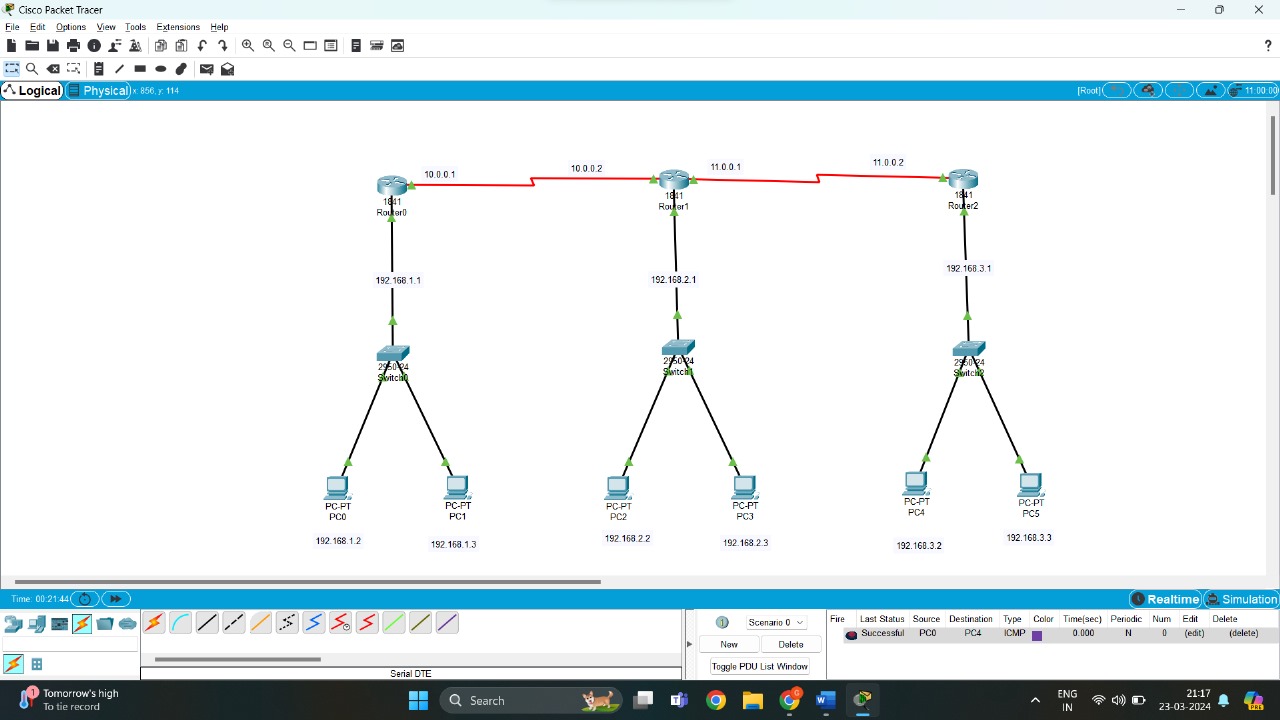
**Practical no. 5**

**Aim:** Using Packet Tracer, create a network with three routers with RIPv1 and each router associated network will have minimum three PC. Show Connectivity

**Date:** **Roll no.:** 03 **sign:**

**Cisco Packet Tracer**

**Output:**



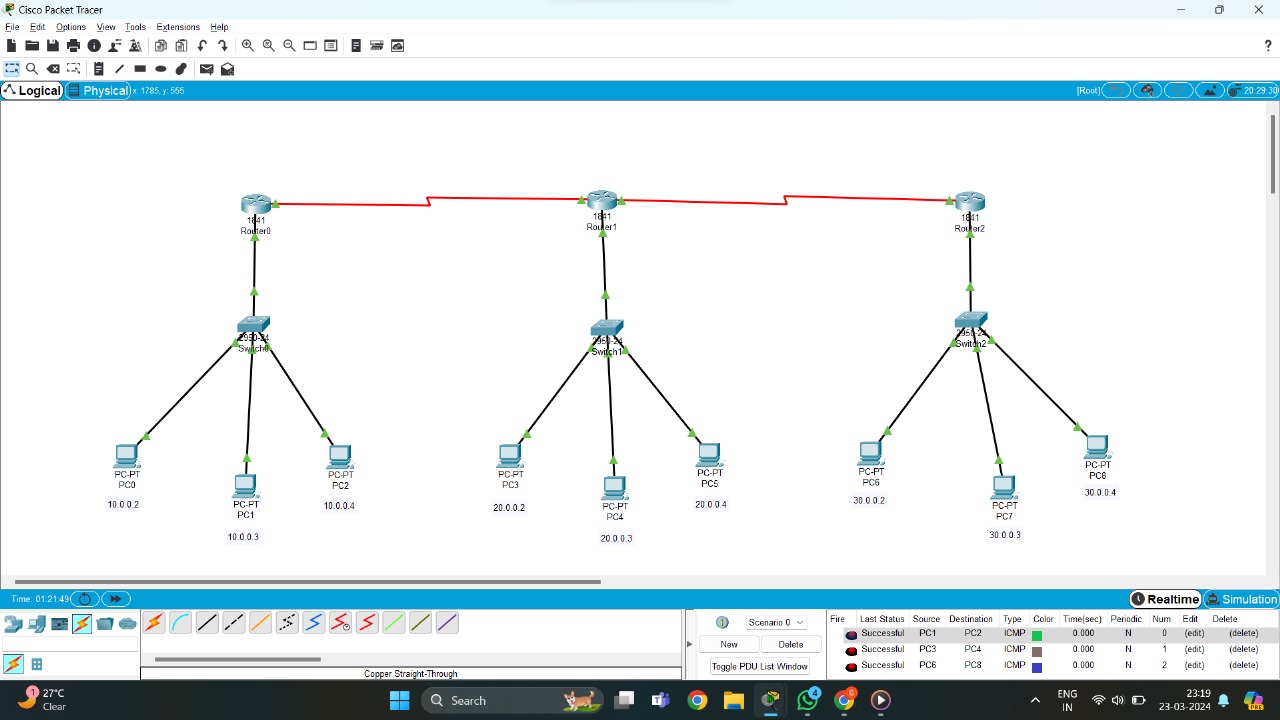
**Practical no. 6**

**Aim:** Using Packet Tracer, create a network with three routers with RIPv2 and each router associated network will have minimum three PC. Show Connectivity

**Date:** **Roll no.:** 03 **sign:**

**Cisco Packet Tracer**

**Output:**



**Practical no. 7**

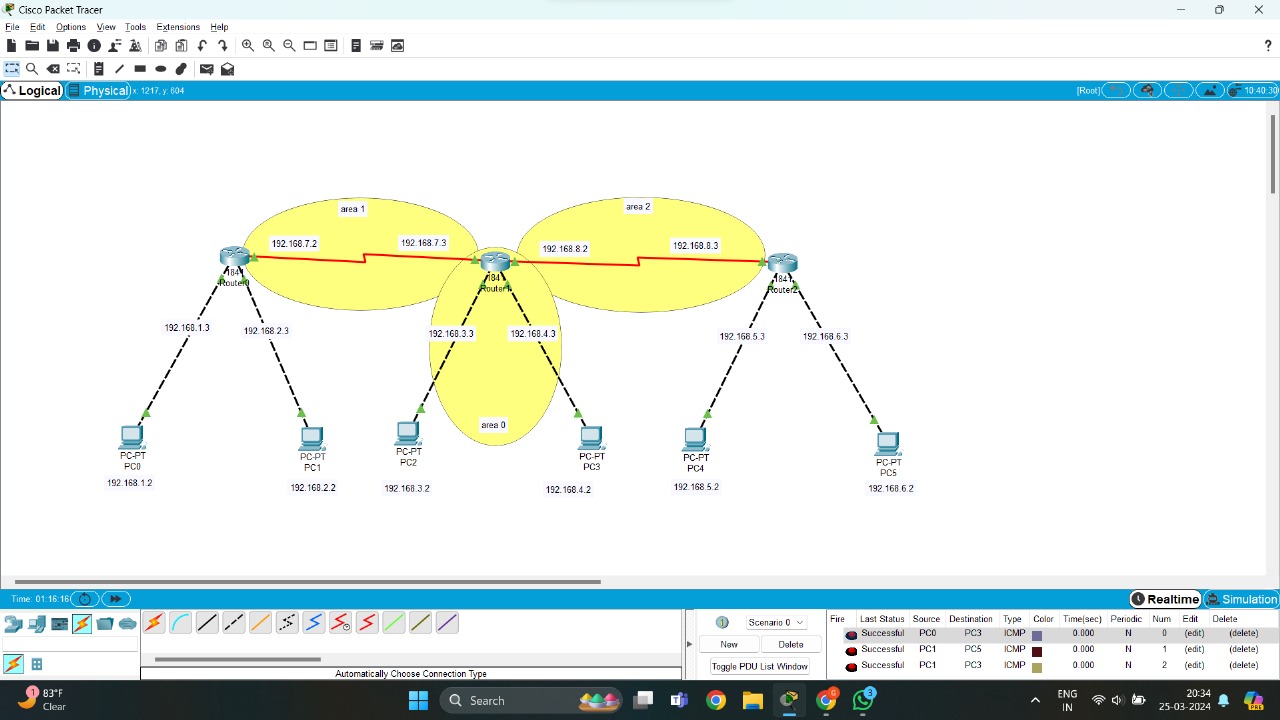
**Aim:** Using Packet Tracer, create a network with three routers with OSPF and each router

associated network will have minimum three PC. Show Connectivity.

**Date:** **Roll no.:** 03 **sign:**

**Cisco Packet Tracer**

**Output:**



**Practical no. 8**

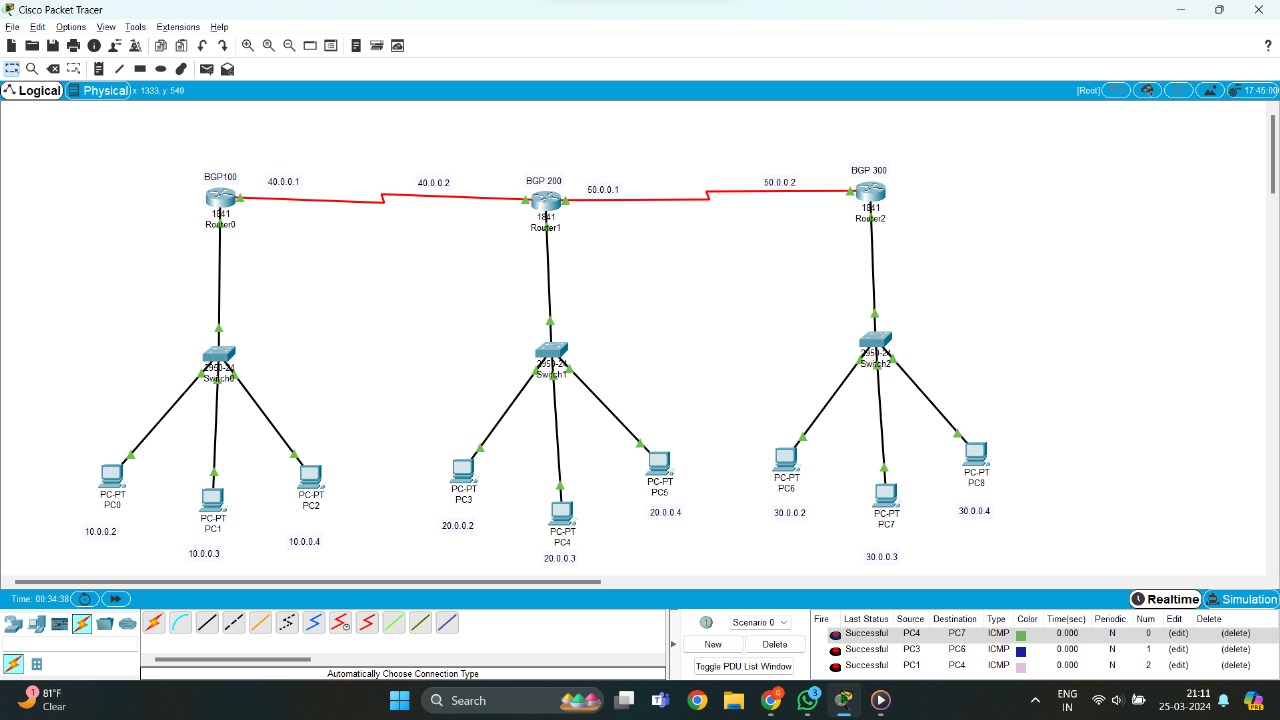
**Aim:** Using Packet Tracer, create a network with three routers with BGP and each router

associated network will have minimum three PC. Show Connectivity

**Date:** **Roll no.:** 03 **sign:**

**Cisco Packet Tracer**

**Output:**



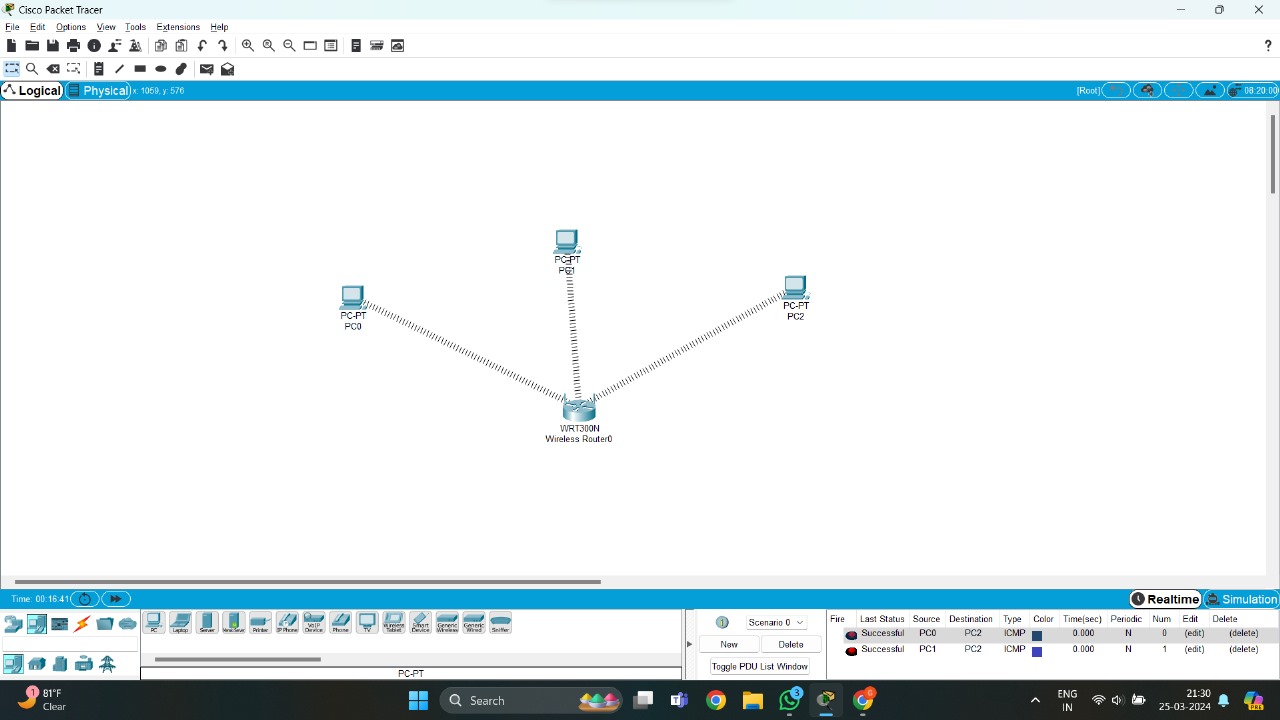
**Practical no. 9**

**Aim:** Using Packet Tracer, create a wireless network of multiple PCs using appropriate access point.

**Date:** **Roll no.:** 03 **sign:**

**Cisco Packet Tracer**

**Output:**

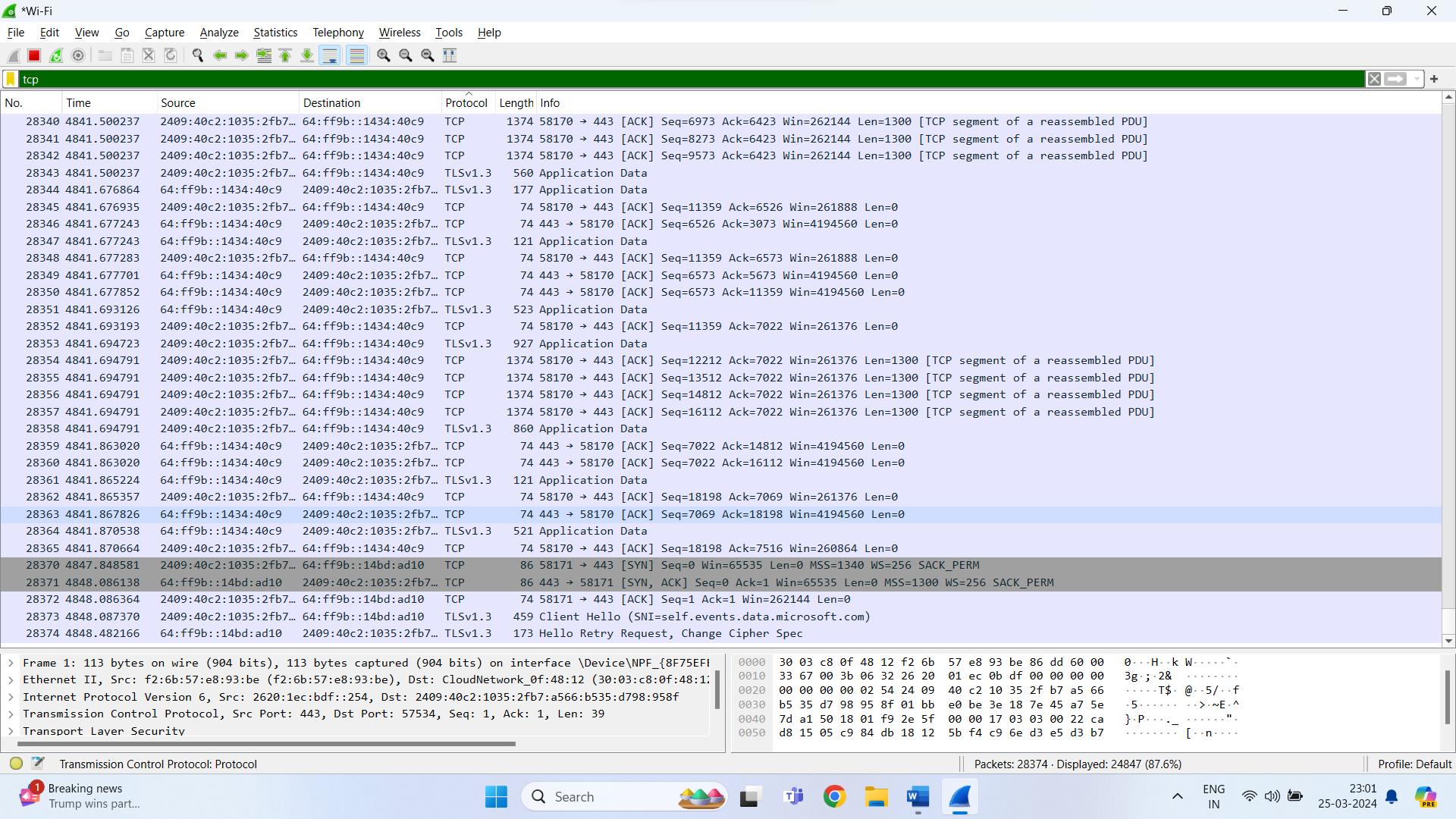


**Practical no. 10**

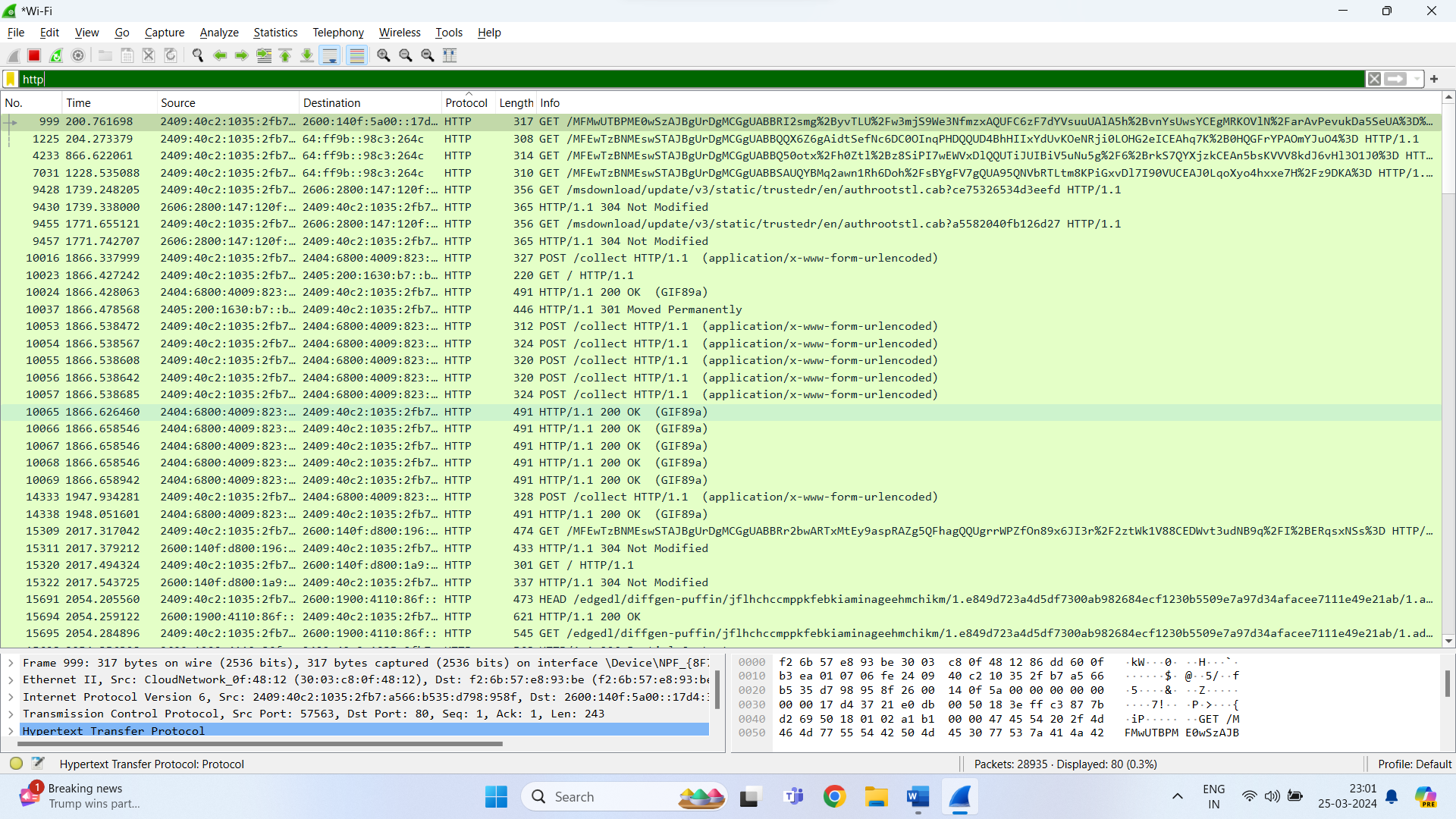
**Aim:** Using Wireshark, network analyzer, set the filter for ICMP, TCP, HTTP, UDP, FTP and perform respective protocol transactions to show/prove that the network analyzer is working

**Date:** **Roll no.:** 03 **sign:**

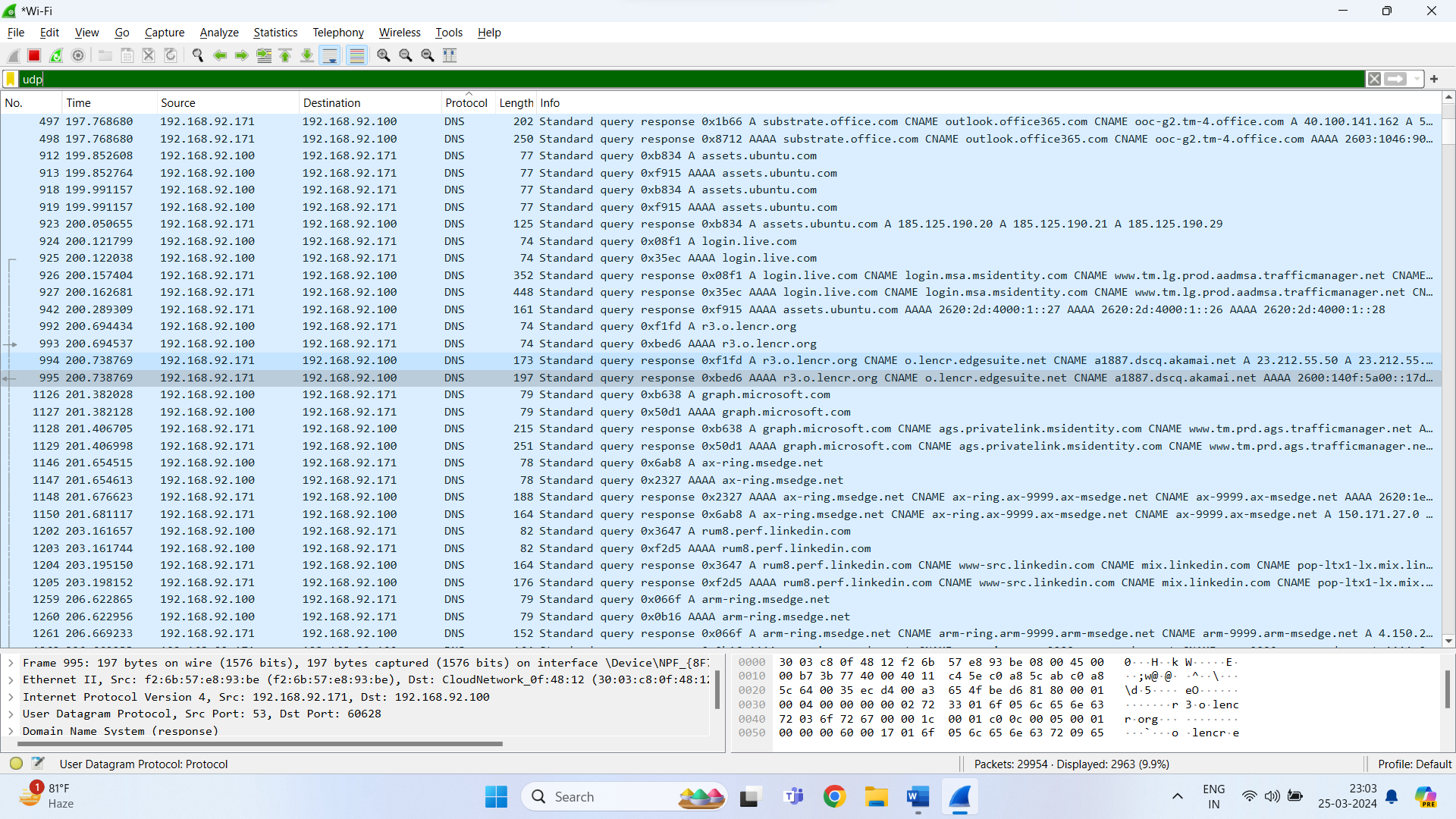
**TCP:**

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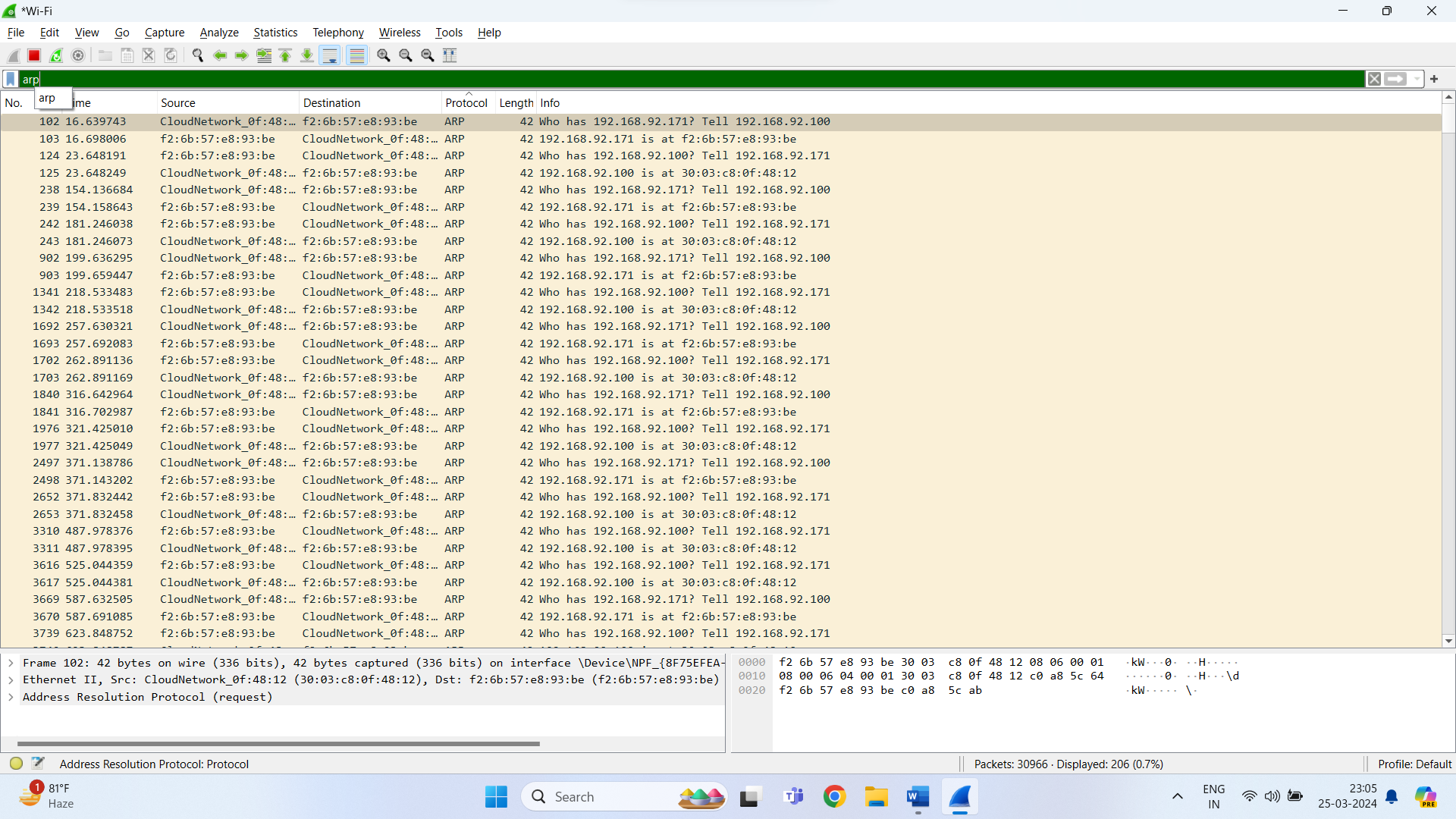
**HTTP:**

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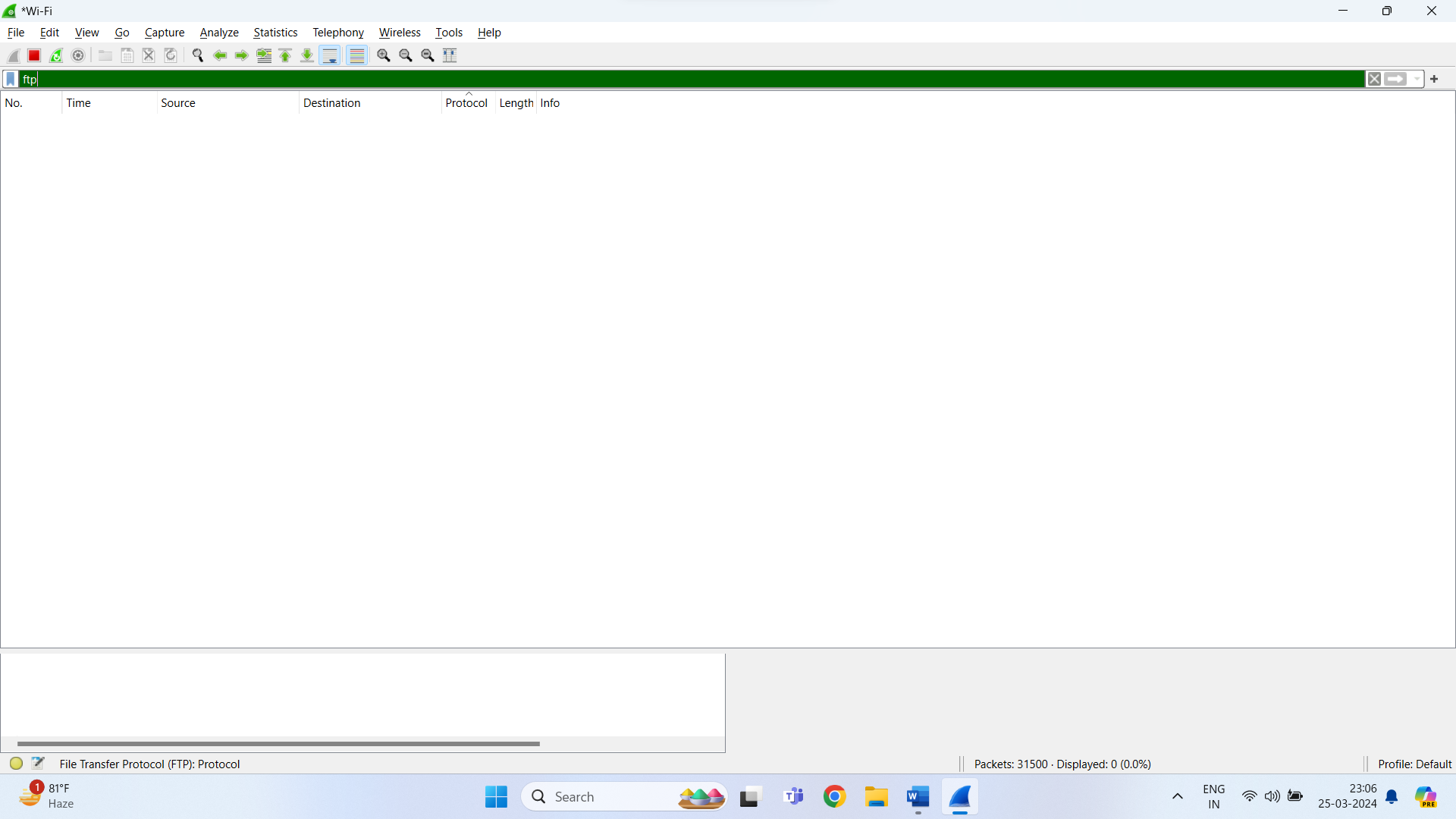
**UDP:**

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**ARP:**

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**FTP:**

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