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Class/Section:	**8501 A/S06**
Ex.No:	**13**
Name of the Experiment	**Capture and Analyse ICMP packet**
Google Drive link of the packet tracer file **(give view permission):**	https://drive.google.com/file/d/1uWQcuBJXNYw2RQI4yHc0uvAcJpKBHDeq/view?usp=drive_link

1. Use command prompt and fill the following details using ipconfig /all command. (highlight and paste screenshot for each of the output).

Parameter	Value
Your Machine IP Address.	10.2.16.28
Your Machine MAC Address	14-D4-24-17-5E-9B
Default Gateway address	10.2.0.1
DNS Server IP Address	172.16.103.254

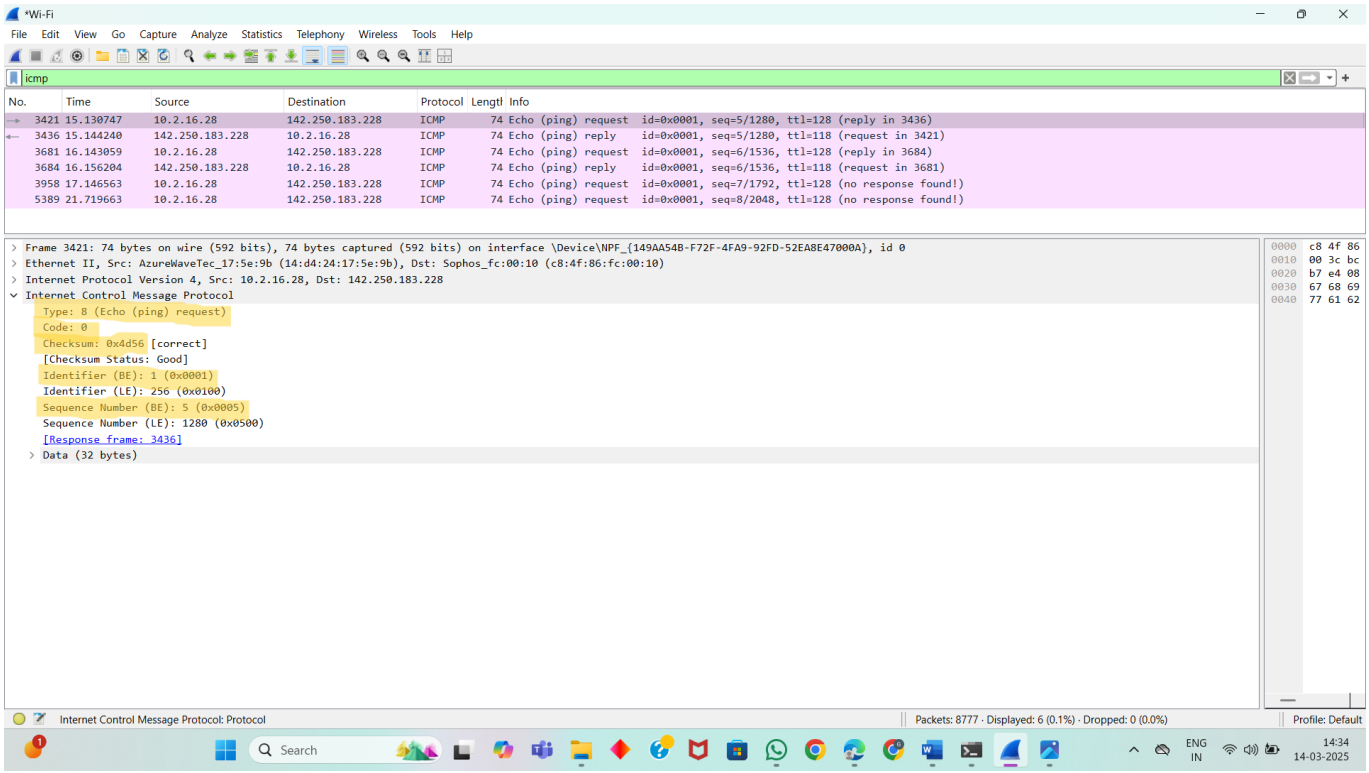
```
Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : MediaTek MT7921 Wi-Fi 6 802.11ax PCIe Adapter
   Physical Address. . . . . . . . . : 14-D4-24-17-5E-9B
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes
   Link-local IPv6 Address . . . . . : fe80::81c6:cfc8:e5c5:292e%5(Preferred)
   IPv4 Address. . . . . . . . . . . : 10.2.16.28(Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.224.0
   Lease Obtained. . . . . . . . . . : 14 March 2025 13:40:12
   Lease Expires . . . . . . . . . . : 15 March 2025 01:40:12
   Default Gateway . . . . . . . . . : 10.2.0.1
   DHCP Server . . . . . . . . . . . : 10.2.0.2
   DHCPv6 IAID . . . . . . . . . . . : 68473892
   DHCPv6 Client DUID. . . . . . . . : 00-01-00-01-2B-F6-99-AF-E0-73-E7-CE-7D-F6
   DNS Servers . . . . . . . . . . . : 172.16.103.254
                                       4.2.2.2
                                       8.8.8.8
   NetBIOS over Tcpip. . . . . . . . : Enabled
```

2. Ping any website through command prompt and Fill the following details by applying the filter as **ICMP**: (highlight and paste screenshot for each of the output).

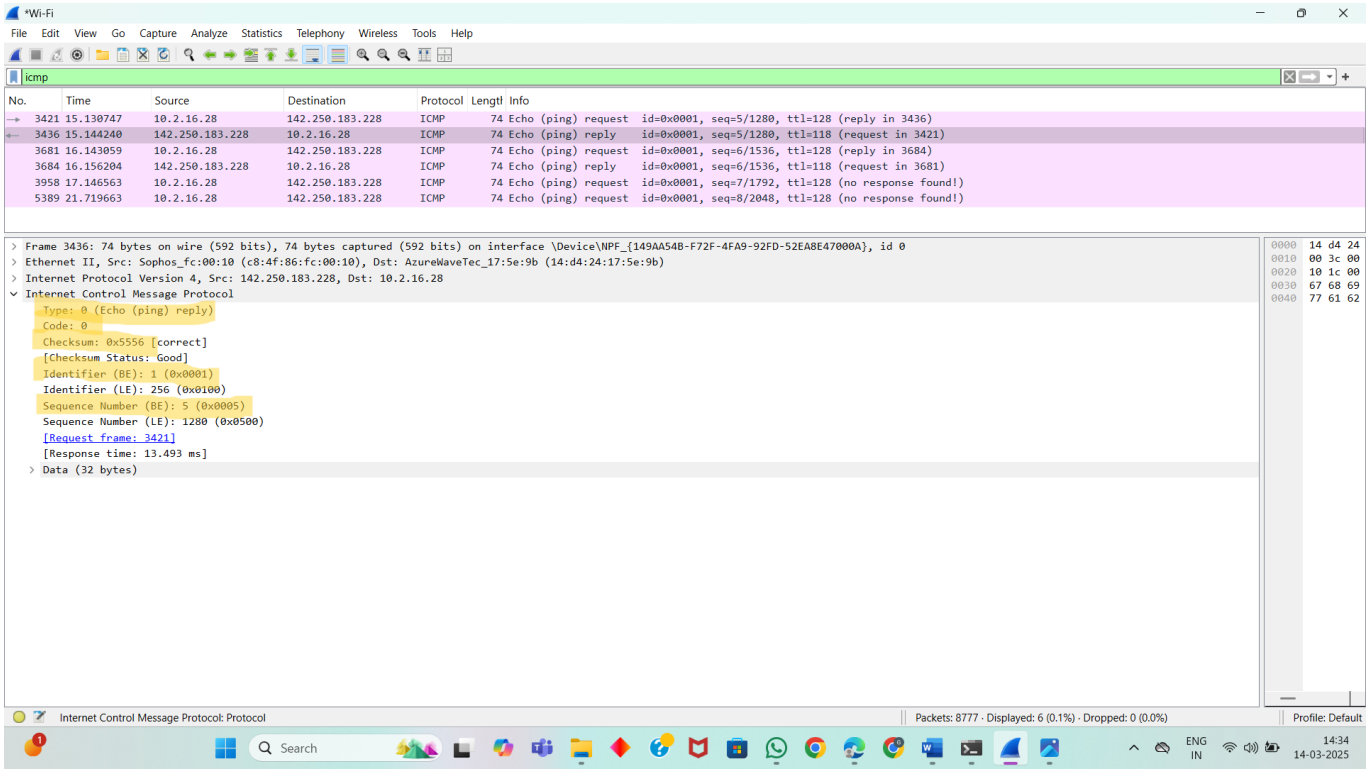
ICMP Request message:

Field Name	**Field Length (no of bits)**	**Field value**
Type	8 bits	0 (Echo Request)
Code	8 bits	0 (No further details needed for Echo Reply)
Checksum	16 bits	0x4d56
Identifier	16 bits	1 (0x0001)
Sequence Number	16 bits	5 (0x0005)



ICMP Reply message: (highlight and paste screenshot for each of the output).

Field Name	Field Length (no of bits)	Field value
Type	8 bits	0 (Echo Reply)
Code	8 bits	0 (No further details needed for Echo Reply)
Checksum	16 bits	0x5556
Identifier	16 bits	1 (0x0001)
Sequence Number	16 bits	5 (0x0005)



Paste the Wireshark File with view permission:

Google Drive Link:
https://drive.google.com/file/d/1uWQcuBJXNYw2RQI4yHc0uvAcJpKBHDeq/view?usp=drive_link

Rubrics for Wireshark labs: (To be Filled by the Class Teacher)

Rubrics	**Excellent**	**Fair**	**Poor**	**Marks**
Understanding (2)	Understand the Concept very well. (2)	Understand the Concept (1)	Poor Understand the Concept (0)	
Usage of filters (3)	Identified and applied the filter correctly (3)	Identified the filter, but not applied correctly (2-1)	Couldn't identify and apply the filter. Just captured the packets (1)	
Attach relevant Screenshots (3)	clearly Highlighted the answers and attached the screenshots (3)	attached the screenshots, but not highlighted. (2-1)	Did not attach the screenshots (0)	
On time Submission (2)	Early or on time submission (2)	Submitted after deadline (1)	Did not Submit (0)	
Total				