EXPERIMENT 8

AIM: Study of packet sniffer tools Wireshark: -
a. Observer performance in promiscuous as well as non-promiscuous mode.
b. Show the packets can be traced based on different filters

Theory:
Wireshark is a network packet analyzer. A network packet analyzer presents captured packet data in as much detail as possible.

You could think of a network packet analyzer as a measuring device for examining what's happening inside a network cable, just like an electrician uses a voltmeter for examining what's happening inside an electric cable (but at a higher level, of course).

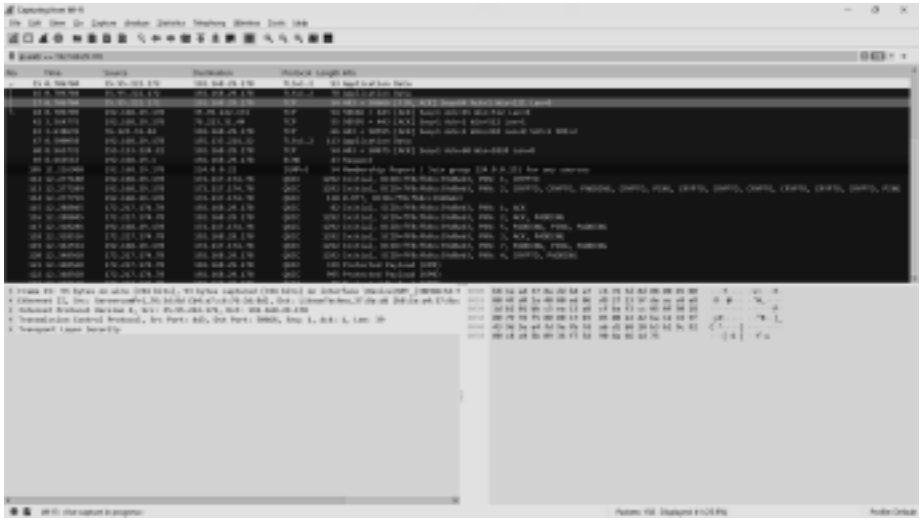
In the past, such tools were either very expensive, proprietary, or both. However, with the advent of Wireshark, that has changed. Wireshark is available for free, is open source, and is one of the best packet analyzers available today.

Applications os wireshark:-

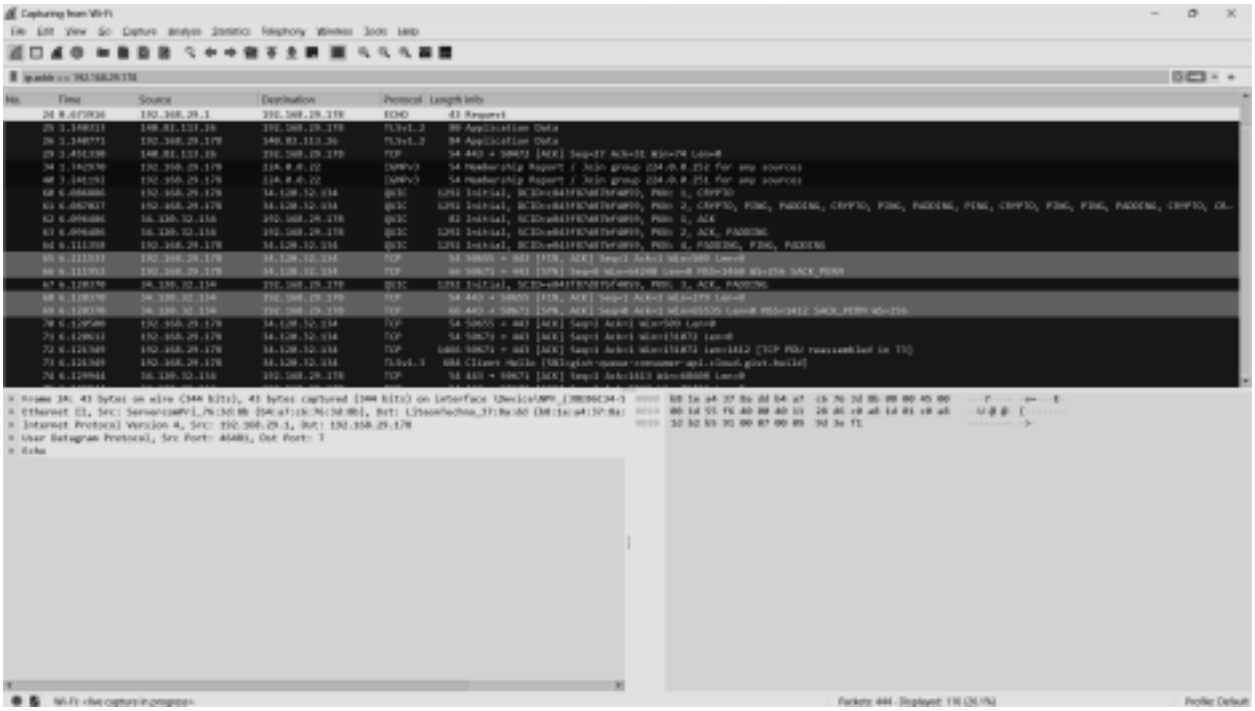
- Network administrators use it to troubleshoot network problems
- Network security engineers use it to examine security problems
- QA engineers use it to verify network applications
- Developers use it to debug protocol implementations
- People use it to learn network protocol internals

Filter: IP Address

Promiscuous off

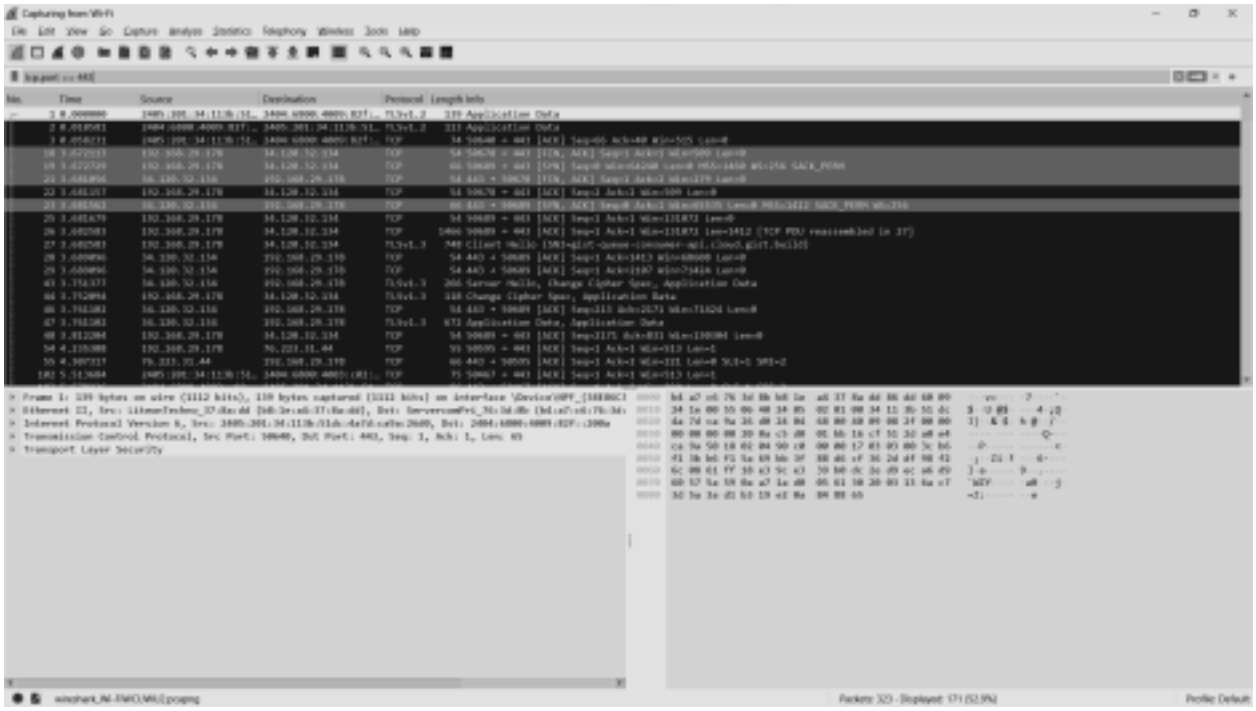


Promiscuous on

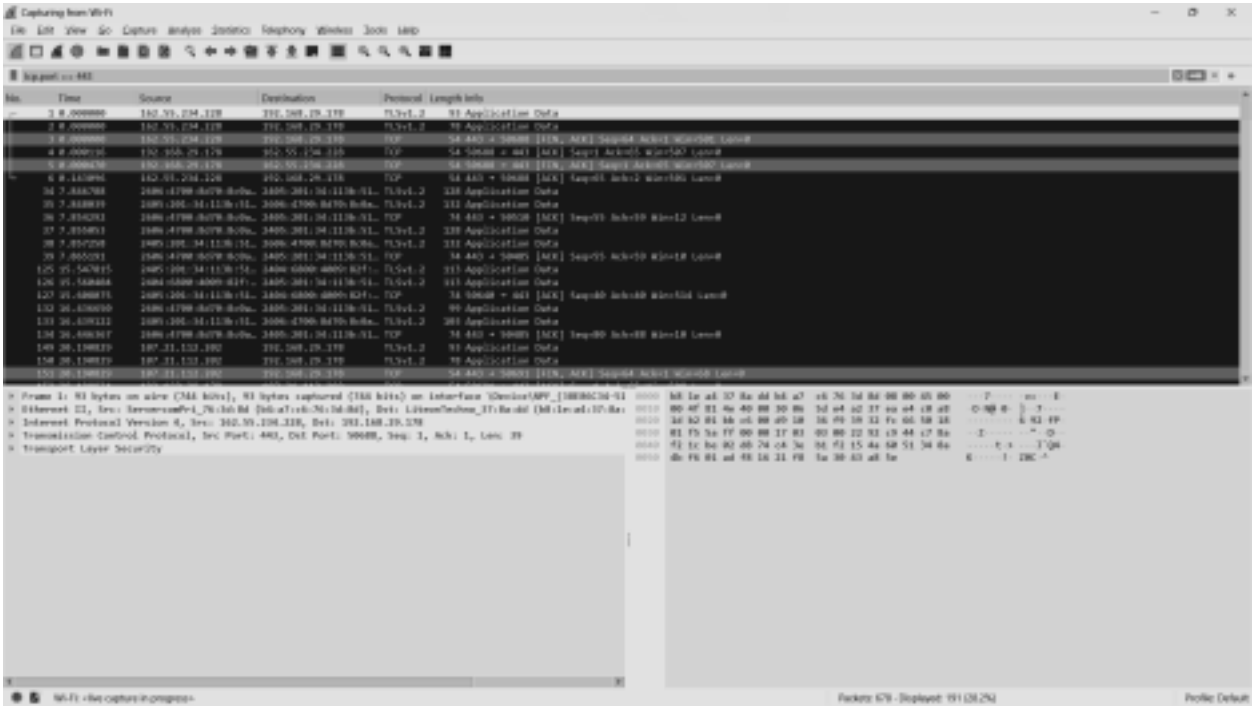


Filter: Port number

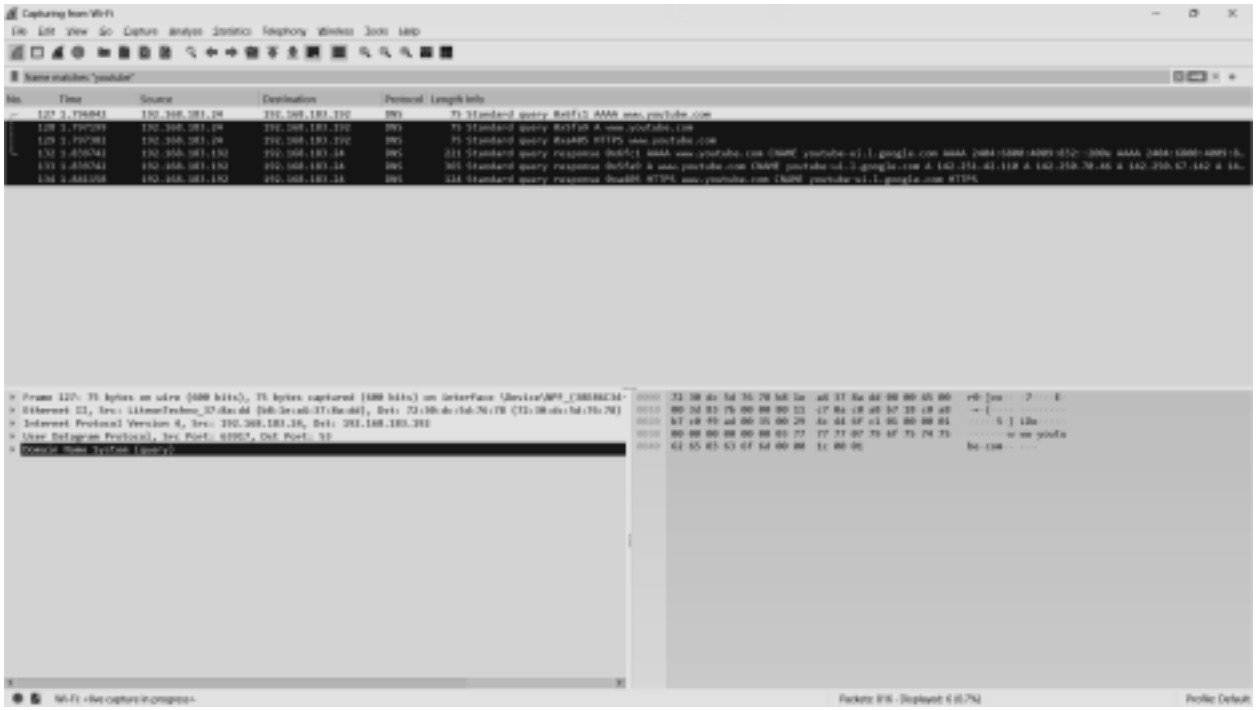
Promiscuous off



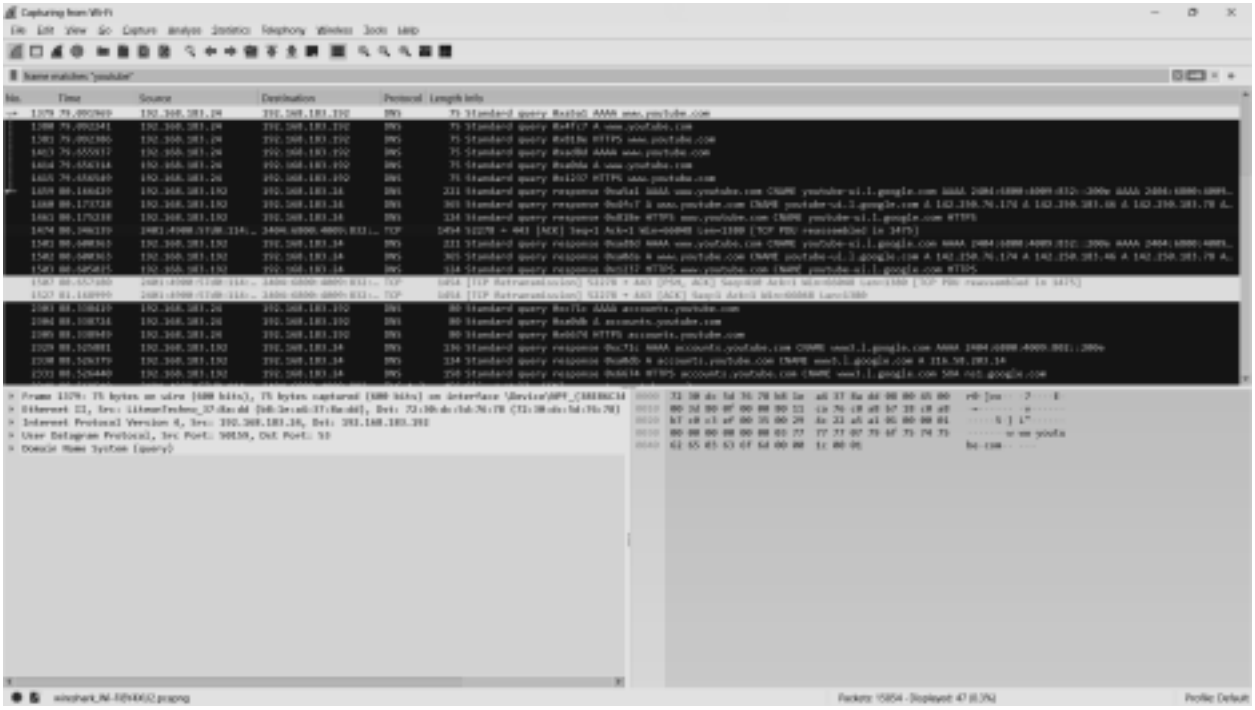
Promiscuous on



Filter: String matching
Promiscuous off



Promiscuous on



Conclusion: Thus, by performing this experiment, we have studied and implemented packet sniffing tool Wireshark.