## Assignment -5

Title: File transfer using UDP modet socket.

Problem Stalement:

Write a program using UDP sockets to enable file transfer between 2 machines Demonstrate the packet captured traces using Wireshark packet analyzer tool peer to peer mode.

Objectives:

To transfer files between 2 machines using UDP sockets.

Outcomes:

To be able to transfer files between 2 machines using UDP sockets.

To be able to differentiate between

to be able to differentiate between data packets, management packets and low level control packets.

Theory:

TCP guarentees the delivery of packets and preserves their corder in destination sometimes the features are not required and since they do not come without performances, it would be better to use a lighter transport protocols. The kind of service is accomplished by UDP protocol which

evenveys datagram packets. They are used implement a connectionless packet delivery service supported by the UDP packet.

Each message is transferred from source machine based on information contained within the packet.

The format of datagram packet is: Message Length Host BerverPort Data packets: These are often supplied to the packet capture mechanism, synthesized from the 802:11 header.

Mon dota packets: Nou have to eapture in monitor mode to 802.11 header.

Management packets:
They are usedspeer WLAN controllers to maintain a WLAN network, and as such is seldom importance above OSI layer 2.

Low Level pa control packets:

They are used by peer WLAN controllers to

synchronize channel access within contending

WLAN hardware as well as eynchronize

packet exchange between peers. UDP Socket APIS: socket Cint domain, int type, int protocol)

bind (int socket, struct socket, paddrt address)

listen(int socketid, int backlog)

sendto (int socketid conct void\* msg, int len, int

tlag, const struct sockaddr\*, to (int)

close (int socketid) Connectionless & structure client gerver socket() socket() sendto() > receive from() close ()

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Conclusion: Therefore we have successfully & implemented file transfer between 2 marhines using UDP protocol.

FOR EDUCATIONAL USE

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