Lecture 4

Sample Socket Programming

Wireshark Demo

UPD Echo Server

udp server	udp client
create server address struct	create server address struct
create server socket	create client address struct
bind server socket to server address	create client socket
loop	bind client socket to client address
receive from client address via server socket (also obtained the client address)	loop
process info	send to server address via client socket
end loop	receive from server address via client socket
	end loop

TCP Echo Server

TCP server	TCPclient
create server address struct	create server address struct
create server socket	create client address struct
bind server socket to server address	create client socket
convert to a listening socket	connect client socket to host
loop	loop
accept client request (also get client address **and a new file descriptor**)	write to the client socket
process info	receive from client socket
end loop	end loop