Assignment - A5

Problem Statement -

Write a ferogram using UDP nockets to enable file transfers (scrift, test, audio, video) between two machines. Demonstrate the feackets cafetured traces using Wireshark fracket analyzer tool using feer to feer method.

Objectives -

- 1. To understand UDP workels using C/C++
- 2. Analyze the fracket using Wirechark.

5/w and H/w Requirements-

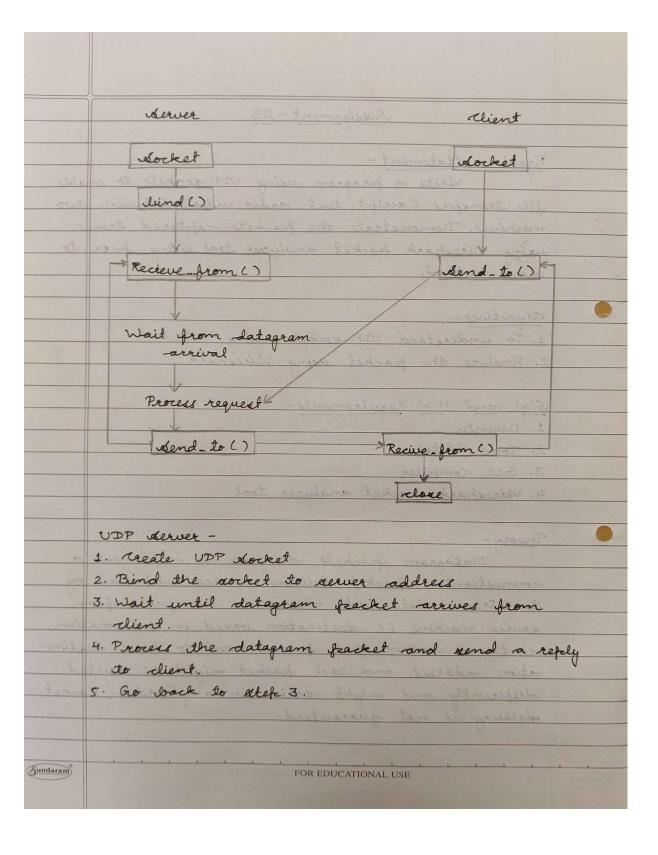
- 1. abuntu
- 2. Kode Editer
- 3. GCC Compiler
- 4. Wireshark fracket analyzer tool

Theory -

Datagram frackets are use to implement a connectionless fracket delivery service suffrarted by to stream data. Each message is transferred from source markine i.e destination based in information contained within that fracket need to have destination address and each fracket might be routed differently and might arrive in any order. Parket delivery is not guaranteed.

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	UDP client -
4	1. Weate UDP Nocket
34	2. dend message to server.
Cons	3. Wait until reafconce from server is recieved
3.0	4. Process reply and go back to step 2, if necessary
	J. Close socket descriptor and exit.
	Allerther is solvened.
	Function:
1.	int stocket (int domain, int type, int frotocal)
0	DOMAIN - AF_INET on AL_INETG
bass	Type - SOCK-STREAM or SOCK-DGRAM
18.4	Pratocal - O means use default fratocal
	Parale Posalesses
2.	int bind (int scocket Id, const struct stock-address)
	socket Id - File descriptor of socket to be binded.
	sock-address - Structure in which address to bind
	is expecified
	dire of address structure
3.	saize - t sent-to (int archet, conet void + buf, aize - t
	len, int flags, roust extruct docket-addr,
	* dext_addr, nocketlen_t address
	len- size of lenf afolication buffer
	flags - Betwie OR of flags to modify worked
	dest behavious.
A A	topt addr - Structure containing address of
	destination.
	address - size of address structure.
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4. saire-t receive- From (int archel Id, void + buf, xize-t len, int flags, struct bockadde, * xrc-addr, aockellen_t * addrlen) dre-addr - abouture containing source address address - variable in which address of source structure is returned. Conclusion -From drie assignment we were able to implement / underxland, the concept of UDP and hence raptures the parket traces using wireshark Parket Analyzer. FOR EDUCATIONAL USE Sundaram