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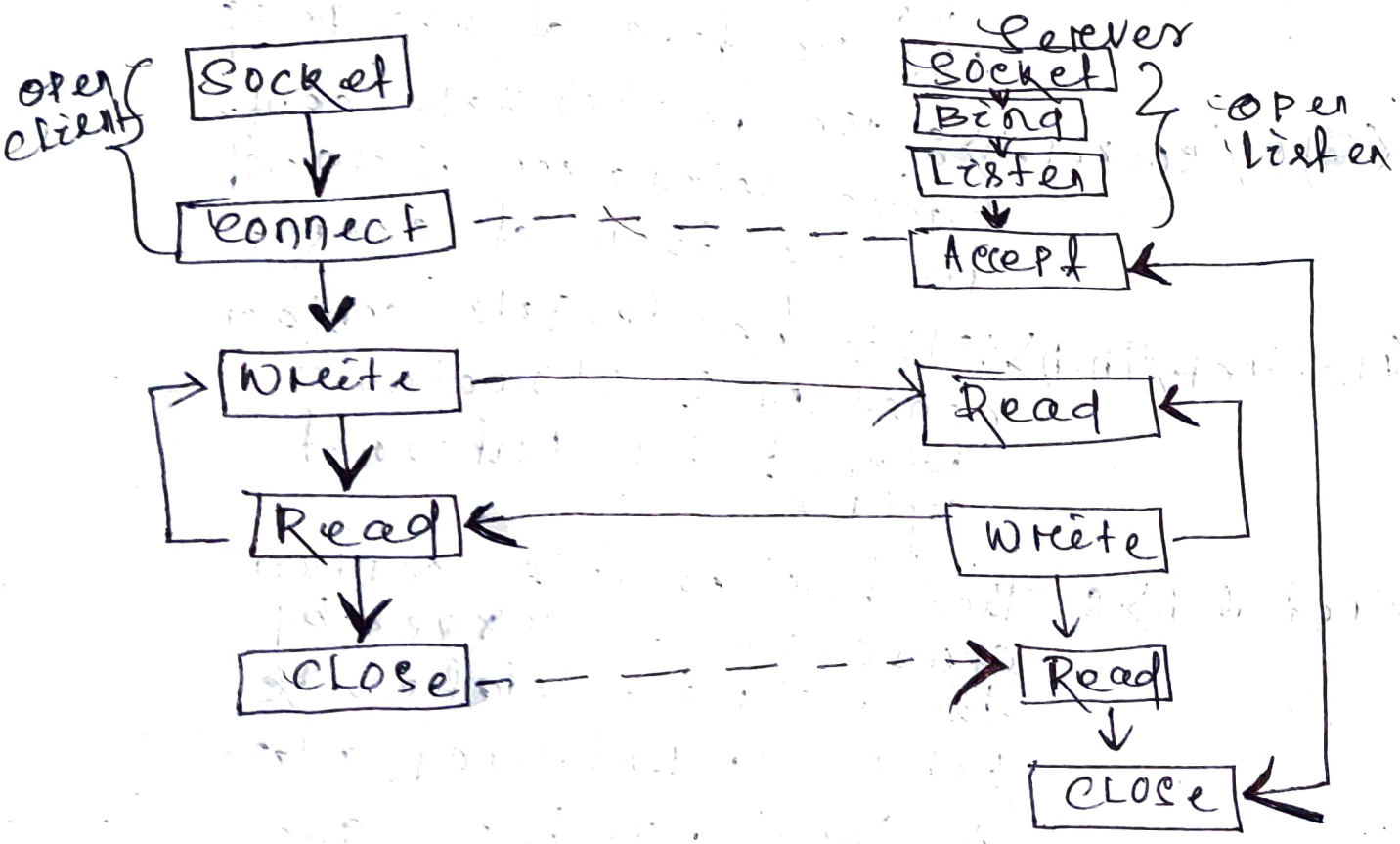
Experiment-1

Case study Header files used for socket programming

* **Socket programming :-**

Socket programming is a way of connecting two nodes on a network to communicate with each other. One socket listen on a particular port of an IP, which other socket reaches out to the other form of connection.

Socket API Architecture



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LIST OF HEADER FILE USED IN SOCKET PROGRAMMING:-

1. <stdio.h> : header file used for standard input and output
2. <unistd.h> : It provides access to POSIX operating system API.
3. <string.h> : This header file contain structure that feture the compability with BSD
4. <Std Lib.h> : It's the header file that includes functional such as memory allocation process control.
5. <sys/types.h> : The header file contai definations to allow for the porting of BSD progr.
6. <sys/socket.h> : The header file cont. macro definations related to creation of socket.
7. <Netinet/in.h> : This headerfile contains constant & structures defined by Internet system.
8. <netdb.h> : This header file contains structure returned by the network database library. Internet address & port numbers are stored in network byte order.

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9. <time.h> : It contain time & date functi declaration to provide standardized access to time/ date manipulation & formating.

10. <sys/stat.h> : This header file facilitat getting information about file attributes.

11. <ioctl.h> : This header file is used with the TCP/IP functional described callable function included in BSD time socket API

12. <errno.h> : This is the header file contain definition for the macro identifiers that name system error status condit

13. <arpa/Inet.h> : This header file contain declaration for the network address resolu tion function.

14. <net/if.h> : This header file contain structure that defines the network address resolution function.

15. <pcap.h> : It defines the header for each packet. the part of header makes understanding the data in pcap dump