**CN Exp 9**

1. What is a socket?

A socket is a core endpoint of a two way communication link between tow programs running on the network. A socket is bound to a port number so that the TCP layer can identify the application that data is destined to be sent to. An endpoint is a combination of an IP Address and a port number.

1. What is a stream socket?

In computer operating systems, a **stream socket** is a type of inter-process communications **socket** or network **socket** which provides a connection-oriented, sequenced, and unique flow of data without record boundaries, with well-defined mechanisms for creating and destroying connections and for detecting errors.

1. Differentiate between datagram and stream socket

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| **Datagram Socket** | **Stream Socket** |
| Datagram socket is a type of network socket which provides connection-less point for sending and receiving packets | Stream socket is a type of inter-process communications socket or network socket which provides a connection-oriented, sequenced, and unique flow of data |
| Every packet is individually routed and delivered | It provides sequenced delivery of packets |
| It is an unreliable mechanism with no error detection or prevention mechanisms | It is a reliable mechanism with fixed steps to creating and destroying connections and detecting errors |
| It uses UDP protocol for transmission | It uses TCP protocol for transmission |