Assignment 5
Computer Networks

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Question 1 Write a brief note on the meaning of each component of both the structures in_addr and sockaddr_in.

Answer

- **struct in_addr:** This structure contains only one member which is s_addr of type u_long type for storing the 32 bits IP address which can be netID or hostID.

- **struct sockaddr_in:** This structure contains 4 members total of 16 bytes. sin_family that is of 2 bytes of type short and used to store the family type of socket e.g. AF_INET, AF_UNIX. sin_port that is also of 2 bytes of type u_short (unsigned short) stores port number of host machine e.g. 23, 9939. sin_addr is of 4 byte of type in_addr that already has been discussed in last point which used to store the IP address of host machine. sin_zero of 8 byte of type char array which may be used in future or can be used to extra info about address.