

Lab6 - Exercise

1. Implement a Socket Program to convert the given IP Address (Dotted Decimal Notation) into Binary, Octal and Hexa Decimal Notations.

Objective: Develop a client-server application using TCP socket programming, where:

- a. Client Process : Read the IP Address(Dotted Decimal Notation) from the user and sends it to the Server Process
- b. Server Process: Receives the IP Address from the Client Process, and reverts back with its Binary, Octal and Hexa Decimal representation to Client Process.

For Example :

Client :

1. if the IP Address "172.16.67.120" read from the user, it returns and sends it to Server Process
2. Server Process receives the same and converts it to Binary, Octal and Hexa Decimal and then sends back to Client Process.

i.e

1. Binary : 10101100 00010000 01000011 1111000
2. Octal : 254 010 103 170
3. Hexa : AC 20 43 78

2. Implement a Socket Program to Validate the given IP Address (
 - a) Client Process : Read the IP Address(Dotted Decimal Notation) from the user and sends it to the Server Process
 - b) Server Process: Receives the IP Address from the Client Process, and Validate it. If it is a Valid, then send the message "VALID" or else "INVALID" to the Client.