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Experiment - 5

Aim

Implement Simple Mail Transfer Protocol

Theory

SMTP is an application layer protocol. The client who wants to send the mail opens a TCP connection to the SMTP server and then sends the mail across the connection. The SMTP server is always on listening mode. As soon as it listens for a TCP connection from any client, the SMTP process initiates a connection on that port (25). After successfully establishing the TCP connection the client process sends the mail instantly.

Mail is sent by a series of request and response messages between the client and a server. The message which is sent across consists of a header and the body. A null line is used to terminate the mail header. Everything which is after the null line is considered as the body of the message which is a sequence of ASCII characters. The message body contains the actual information read by the receipt.

The user agent at the server-side checks the mailboxes at a particular time of intervals. If any information is received it informs the user about the mail. When the user tries to read the mail it displays a list of mails with a short description of each mail in the mailbox. By selecting any of the mail users can view its contents on the terminal..

Running

Open 1 terminal for Server and 1 or more for Clients Server should be set up first and after that Client.

Run Server application:

\$javac Server.java \$java Server

Run Client application **\$javac Client.java \$java Client**

At first client should authorize its sender ID

After authorising, messages to corresponding client is entered in the format
message#recipient id

For logging out, send logout.

Screenshots