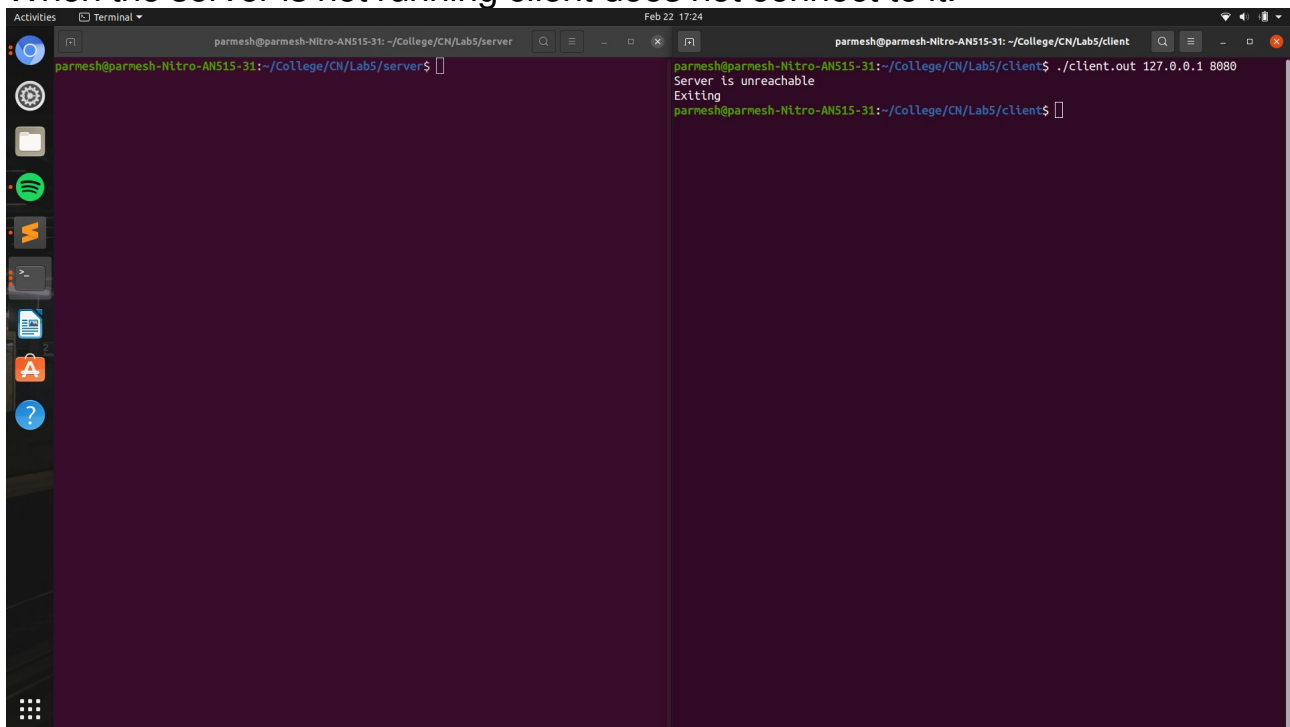


Lab 5

Parmesh Mathur

2018A7PS0133G

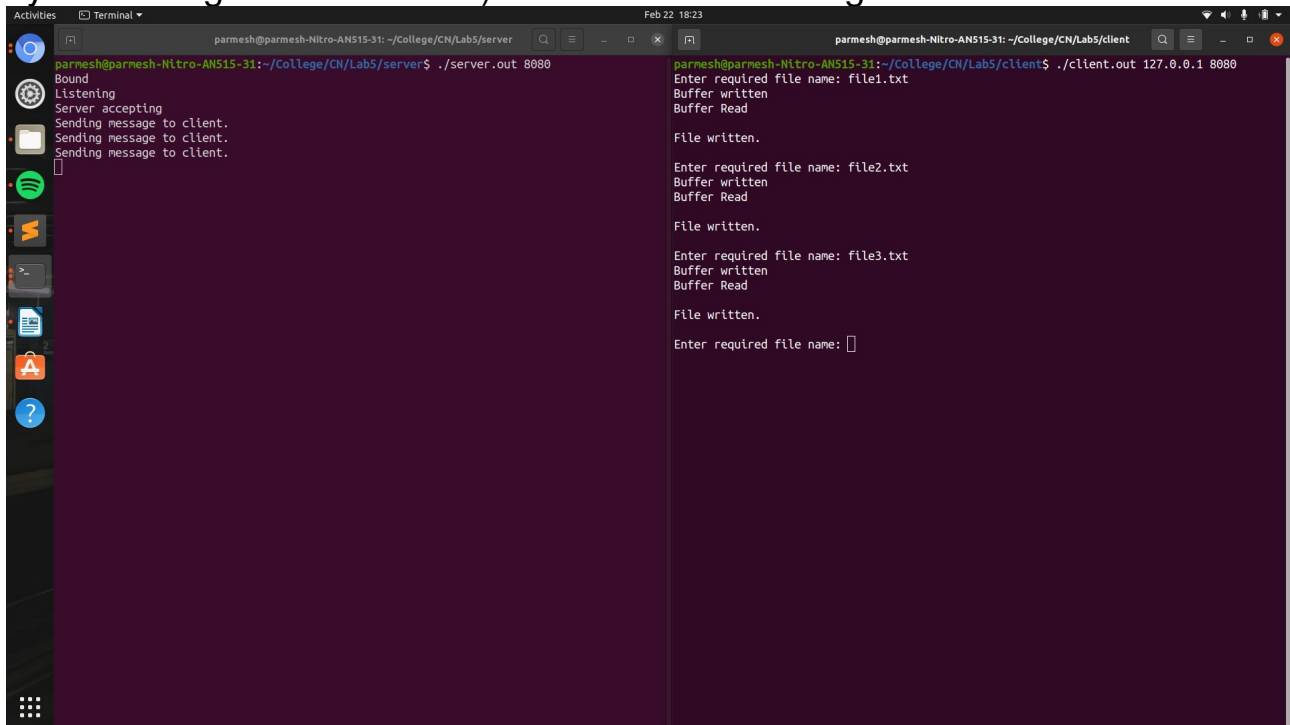
When the server is not running client does not connect to it.



The screenshot shows two terminal windows side-by-side. The left window is titled 'parmesh@parmesh-Nitro-ANS15-31: ~/College/CN/Lab5/server' and shows a prompt 'parmesh@parmesh-Nitro-ANS15-31:~/College/CN/Lab5/server\$'. The right window is titled 'parmesh@parmesh-Nitro-ANS15-31: ~/College/CN/Lab5/client' and shows the following output: 'parmesh@parmesh-Nitro-ANS15-31:~/College/CN/Lab5/client\$./client.out 127.0.0.1 8080', 'Server is unreachable', and 'Exiting'. The prompt for the right window is 'parmesh@parmesh-Nitro-ANS15-31:~/College/CN/Lab5/client\$'.

P.T.O.

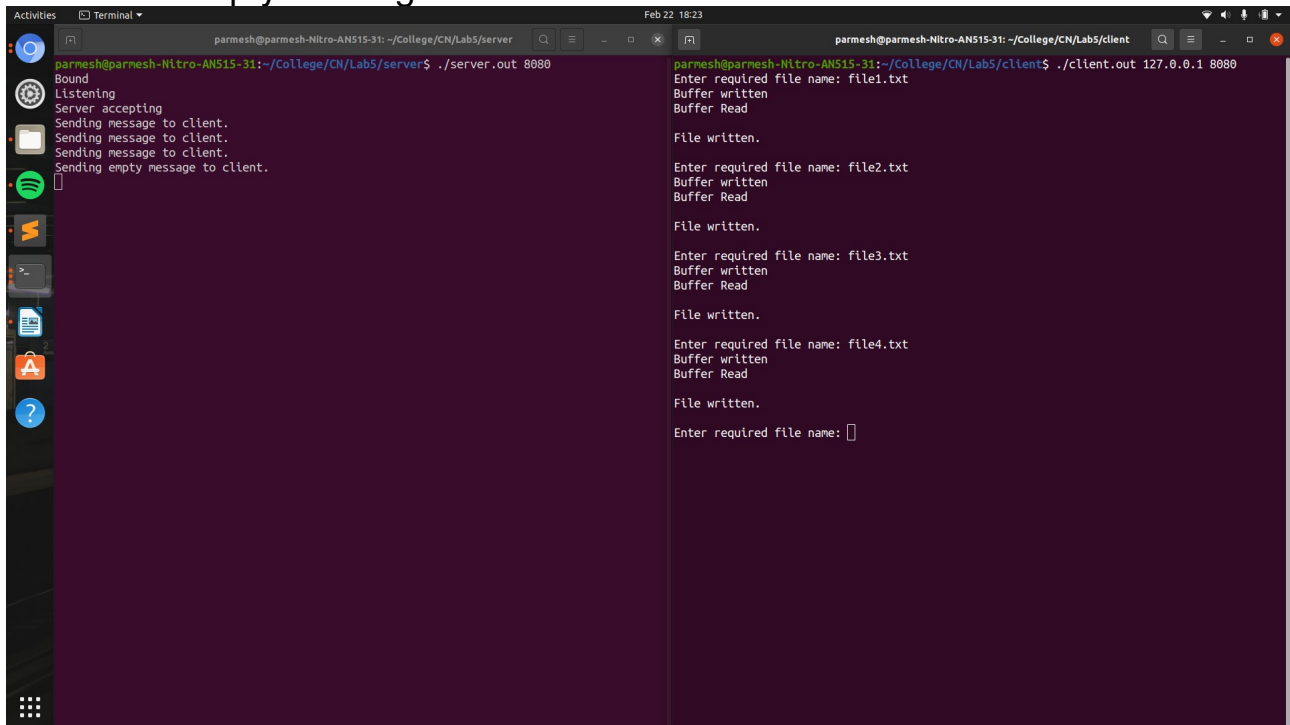
When the client asks for particular file (or multiple files), the server responds to it (them, one by one). It copies 10 bytes (or fewer, depending on how many bytes the original file contains) and return the message.



```
parmesh@parmesh-Nitro-AN515-31: ~/College/CN/Lab5/server$ ./server.out 8080
Bound
Listening
Server accepting
Sending message to client.
Sending message to client.
Sending message to client.
parmesh@parmesh-Nitro-AN515-31: ~/College/CN/Lab5/client$ ./client.out 127.0.0.1 8080
Enter required file name: file1.txt
Buffer written
Buffer Read
File written.
Enter required file name: file2.txt
Buffer written
Buffer Read
File written.
Enter required file name: file3.txt
Buffer written
Buffer Read
File written.
Enter required file name:
```

P.T.O.

When the client requests a file that does not exist in the server directory, it returns an empty message



```

parmesh@parmesh-Nitro-ANS15-31: ~/College/CN/Lab5/server$ ./server.out 8080
Bound
Listening
Server accepting
Sending message to client.
Sending message to client.
Sending message to client.
Sending empty message to client.

parmesh@parmesh-Nitro-ANS15-31: ~/College/CN/Lab5/client$ ./client.out 127.0.0.1 8080
Enter required file name: file1.txt
Buffer written
Buffer Read
File written.

Enter required file name: file2.txt
Buffer written
Buffer Read
File written.

Enter required file name: file3.txt
Buffer written
Buffer Read
File written.

Enter required file name: file4.txt
Buffer written
Buffer Read
File written.

Enter required file name: 

```

P.T.O.

After the programs have been run, the requested files' copies have been made in the client directory.

```
parmesh@parmesh-Nitro-AN515-31: ~/College/CN/Lab5/client
parmesh@parmesh-Nitro-AN515-31:~/College/CN/Lab5/client$ ./client.out 127.0.0.1 8080
Enter required file name: file1.txt
Buffer written
Buffer Read

File written.

Enter required file name: file2.txt
Buffer written
Buffer Read

File written.

Enter required file name: file3.txt
Buffer written
Buffer Read

File written.

Enter required file name: file4.txt
Buffer written
Buffer Read

File written.

Enter required file name: exit

Exiting
parmesh@parmesh-Nitro-AN515-31:~/College/CN/Lab5/client$ ls
client.c  client.out  file1.txt  file2.txt  file3.txt  file4.txt
parmesh@parmesh-Nitro-AN515-31:~/College/CN/Lab5/client$
```

Please refer to README for instruction to run the processes.