

CPSC-471---Project--FTP-Client&Server--using--Socket-Programming

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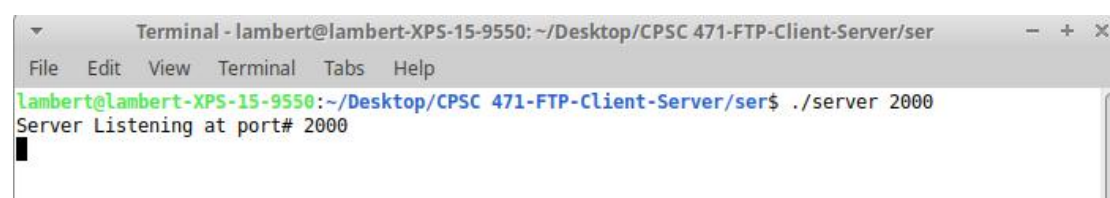
Demo:

In directory CPSC 471-FTP-Client-Server:



```
Terminal - lambert@lambert-XPS-15-9550: ~/Desktop/CPSC 471-FTP-Client-Server - + x
File Edit View Terminal Tabs Help
lambert@lambert-XPS-15-9550:~/Desktop/CPSC 471-FTP-Client-Server$ make
g++ -c cli/client.cpp -o cli/client.o
g++ -c ser/server.cpp -o ser/server.o
g++ cli/client.o -o cli/client
g++ ser/server.o -o ser/server
lambert@lambert-XPS-15-9550:~/Desktop/CPSC 471-FTP-Client-Server$
```

In directory ser:



```
Terminal - lambert@lambert-XPS-15-9550: ~/Desktop/CPSC 471-FTP-Client-Server/ser - + x
File Edit View Terminal Tabs Help
lambert@lambert-XPS-15-9550:~/Desktop/CPSC 471-FTP-Client-Server/ser$ ./server 2000
Server Listening at port# 2000
```

In directory cli:

```
Terminal - lambert@lambert-XPS-15-9550: ~/Desktop/CPSC 471-FTP-Client-Server/cli
File Edit View Terminal Tabs Help
lambert@lambert-XPS-15-9550:~/Desktop/CPSC 471-FTP-Client-Server/cli$ ./client 127.0.0.1 2000
Response: Connect to server successfully..
Type help for comand instruction...

ftp>
```

help cmd:

```
ftp>help
ls                Lists the current server directory.
lls              Lists the current local directory.
put <FILENAME>   Uploads the given filename to server.
get <FILENAME>   Downloads the given filename from server.
quit            Quit.
```

ls cmd:

```
ftp>ls
-----Server-Directory-List-----
Directory listing...
total 136
-rw-rw-r-- 1 lambert lambert 28 Jul 29 11:45 get-sample.txt
-rwxrwxr-x 1 lambert lambert 51912 Jul 29 11:41 server
-rw-rw-r-- 1 lambert lambert 14216 Jul 29 11:15 server.cpp
-rw-rw-r-- 1 lambert lambert 65000 Jul 29 11:41 server.o
-----END-Server-Directory-List-----
Directory listing end...
```

lls cmd:

```
ftp>lls
-----Local-Directory-List-----
Directory listing...
total 140
-rwxrwxr-x 1 lambert lambert 52120 Jul 29 11:41 client
-rw-rw-r-- 1 lambert lambert 13885 Jul 29 11:16 client.cpp
-rw-rw-r-- 1 lambert lambert 67824 Jul 29 11:41 client.o
-rw-rw-r-- 1 lambert lambert 28 Jul 29 11:45 put-sample.txt
-----END-Local-Directory-List-----
Directory listing end...
```

put <filename> cmd:

```
ftp>put put-sample.txt
-----Upload-Processing-----
DATA TRANSFERING...
Given File Name: put-sample.txt
Bytes sended: 28
File Uploaded to server...
-----End-Upload-Processing-----
Transfer complete.

ftp>ls
-----Server-Directory-List-----
Directory listing...
total 140
-rw-rw-r-- 1 lambert lambert 28 Jul 29 11:45 get-sample.txt
-rw-rw-r-- 1 lambert lambert 28 Jul 29 11:50 put-sample.txt
-rwxrwxr-x 1 lambert lambert 51912 Jul 29 11:41 server
-rw-rw-r-- 1 lambert lambert 14216 Jul 29 11:15 server.cpp
-rw-rw-r-- 1 lambert lambert 65000 Jul 29 11:41 server.o
-----END-Server-Directory-List-----
Directory listing end...
```

get <filename> cmd:

```
ftp>get get-sample.txt
-----Download-Processing-----
DATA TRANSFERING...
Given File Name: get-sample.txt
Bytes Received: 28
File Downloaded to local...
-----End-Download-Processing-----
Response: Transfer complete.

ftp>lls
-----Local-Directory-List-----
Directory listing...
total 144
-rwxrwxr-x 1 lambert lambert 52120 Jul 29 11:41 client
-rw-rw-r-- 1 lambert lambert 13885 Jul 29 11:16 client.cpp
-rw-rw-r-- 1 lambert lambert 67824 Jul 29 11:41 client.o
-rw-rw-r-- 1 lambert lambert   28 Jul 29 11:51 get-sample.txt
-rw-rw-r-- 1 lambert lambert   28 Jul 29 11:45 put-sample.txt
-----END-Local-Directory-List-----
Directory listing end...
```

quit cmd:

Client side:

```
ftp>quit
lambert@lambert-XPS-15-9550:~/Desktop/CPSC 471-FTP-Client-Server/cli$
```

Server side:

```
lambert@lambert-XPS-15-9550:~/Desktop/CPSC 471-FTP-Client-Server/ser$ ./server 2000
Server Listening at port# 2000
server: got connection from 127.0.0.1
Quit successfully...
```