

# CNT 5106 Project 2 – Read Me

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### How to run:

- 1) Unzip the files to you local directory
- 2) Open terminal and navigate to the directory where it was extracted
- 3) Start the server using the following command:  

```
java ftpserver.java
```
- 4) Once server starts open a new terminal and navigate to same directory
- 5) Start the client using the following command:  

```
java ftpclient.java
```

### Server side:

- 1) After running the file wait for server to start

### Client side:

- 1) Once client(s) start wait for the enter command prompt to be displayed, then enter the server's port no when asked in the format:  

```
ftpclient <portNo>
```
- 2) Once confirmation is received from server, as follows:  

```
Connected to server on port <portNo>
```
- 3) After successful connection you can use below commands:
  - a. `get <filename>` - Downloads the file from server to client
  - b. `upload <filename>` - Uploads the file to server
- 4) To terminate client enter "exit"

### Error handling:

- 1) If empty command is entered anytime during execution  

```
Enter valid command
```
- 2) If port no doesn't match with server's port

Enter valid port no and try again

3) If file doesn't exist on server

Unable to locate the file

## Screenshots:

1) Successful connection established

tushar@Tushars-MacBook proj1 % java ftpserver.java The server is running. Client 1 is connected! Client 2 is connected! █	tushar@Tushars-MacBook proj1 % java ftpclient.java Enter command 'ftpclient <port>' ftpclient 1108 Connected to localhost in port 1108  Enter command: █	tushar@Tushars-MacBook proj1 % java ftpclient.java Enter command 'ftpclient <port>' ftpclient 1108 Connected to localhost in port 1108  Enter command: █
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2) Get command

tushar@Tushars-MacBook proj1 % java ftpserver.java tushar@Tushars-MacBook proj1 % java ftpserver.java The server is running. Client 1 is connected! Client 2 is connected! Receive message: get downloadTestFile.pptx from client 1 Receive message: get downloadTestFile2.pptx from client 2 █	tushar@Tushars-MacBook proj1 % java ftpclient.java Enter command 'ftpclient <port>' ftpclient 1108 Connected to localhost in port 1108  Enter command: get downloadTestFile.pptx Download successful!  Enter command: █	tushar@Tushars-MacBook proj1 % java ftpclient.java Enter command 'ftpclient <port>' ftpclient 1108 Connected to localhost in port 1108  Enter command: get downloadTestFile2.pptx Download successful!  Enter command: █
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3) Upload command

tushar@Tushars-MacBook proj1 % java ftpserver.java tushar@Tushars-MacBook proj1 % java ftpserver.java The server is running. Client 1 is connected! Client 2 is connected! Receive message: upload uploadTestFile.pptx 1780871 from client 1 Receive message: upload uploadTestFile2.pptx 1780871 from client 2 █	Enter command 'ftpclient <port>' ftpclient 1108 Connected to localhost in port 1108  Enter command: upload uploadTestFile.pptx Upload successful!  Enter command: █	Enter command 'ftpclient <port>' ftpclient 1108 Connected to localhost in port 1108  Enter command: upload uploadTestFile2.pptx Upload successful!  Enter command: █
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4) Exit command to terminate/disconnect

tushar@Tushars-MacBook proj1 % java ftpserver.java tushar@Tushars-MacBook proj1 % java ftpserver.java The server is running. Client 1 is connected! Client 2 is connected! Receive message: upload uploadTestFile.pptx 1780871 from client 1 Receive message: upload uploadTestFile2.pptx 1780871 from client 2 Disconnect with Client 1 Disconnect with Client 2 █	Enter command 'ftpclient <port>' ftpclient 1108 Connected to localhost in port 1108  Enter command: upload uploadTestFile.pptx Upload successful!  Enter command: exit tushar@Tushars-MacBook proj1 % █	Enter command 'ftpclient <port>' ftpclient 1108 Connected to localhost in port 1108  Enter command: upload uploadTestFile2.pptx Upload successful!  Enter command: exit tushar@Tushars-MacBook proj1 % █
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