CSE 534: Fundamentals of Computer Networks (Spring 2017)

Programming Assignment #1 – Socket Programming

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Test

** When I was testing my code. I didn't have other computers so my own laptop was both server and the client. That was the reason the server's IP address was 0.0.0.0

1. When starting Server.java

```
Server Screen!
Server information: 0.0.0.0/0.0.0.0
Port number: 50000
Waiting the client to connect
```

2. When starting Client.java

```
Client Screen
Client information: 192.168.0.2
```

3. When request has arrived

```
Server Screen!
Server information: 0.0.0.0/0.0.0.0
Port number: 50000
Waiting the client to connect
Client [/192.168.0.2:50000] is Requesting a Connection. Accept Connection (Yes/No)?
```

4. When entering Yes/ no

```
Server Screen!
Server information: 0.0.0.0/0.0.0.0
Port number: 50000
Waiting the client to connect
Client [/192.168.0.2:50000] is Requesting a Connection. Accept Connection (Yes/No)?
Yes
Connected!!
```

```
Server information: 0.0.0.0/0.0.0.0
Port number: 50000
Waiting the client to connect
Client [/192.168.0.2:50000] is Requesting a Connection. Accept Connection (Yes/No)?
no
Accept Denied!
!!!GOOD BYE!!!
```

5. Sending message in the server/ receiving message in the client

```
Client Screen
Client information: 192.168.0.2
Server [0.0.0.0:50000] says : Hello Client!
```

6. Sending message in the client/ receiving message in the server

```
Server [0.0.0.0/0.0.0.0:50000] says : Hello Client!
Client [/192.168.0.2:50000] says : Hello!
```

7. Entering /view in client

```
Client [/192.168.0.2:50000] says : /view
Server [0.0.0.0/0.0.0.0:50000] says : File list: chocolate.jpg lollipop.jpg marshmellow.jpg
```

8. Entering /get marshmellow.jpg in client

```
Client [192.168.0.2:50000] says : /get marshmellow.jpg
Server [0.0.0.0:50000] says : SENT marshmellow.jpg
Client [192.168.0.2:50000] says : Received: marshmellow.jpg
```

The one sent from the server which directory was in the Picture folder in the picture below

.settings
bin
Picture
src
.classpath
.project
chocolate
marshmellow

marshmellow