PMD report

Problems found

#	File	Line	Problem
1	D:\File Transfer Socket\src\Client.java	5	All classes, interfaces, enums and annotations must belong to a named <u>package</u>
2	D:\File Transfer Socket\src\Client.java	5	Class comments are required
3	D:\File Transfer Socket\src\Client.java	6	Field comments are required
4	D:\File Transfer Socket\src\Client.java	6	To avoid mistakes add a comment at the beginning of the receive field if you want a default access modifier
5	D:\File Transfer Socket\src\Client.java	6	Use explicit scoping instead of the default package private level
6	D:\File Transfer Socket\src\Client.java	7	Field comments are required
7	D:\File Transfer Socket\src\Client.java	7	To avoid mistakes add a comment at the beginning of the writeData field if you want a default access modifier
8	D:\File Transfer Socket\src\Client.java	7	Use explicit scoping instead of the default package private level
9	D:\File Transfer Socket\src\Client.java	8	Field comments are required
10	D:\File Transfer Socket\src\Client.java	8	To avoid mistakes add a comment at the beginning of the readData field if you want a default access modifier
11	D:\File Transfer Socket\src\Client.java	8	Use explicit scoping instead of the default package private level
12	D:\File Transfer Socket\src\Client.java	10	A method/constructor should not explicitly throw java.lang.Exception
13	D:\File Transfer Socket\src\Client.java	10	Avoid variables with short names like s
14	D:\File Transfer Socket\src\Client.java	10	Parameter 's' is not assigned and could be declared final
15	D:\File Transfer Socket\src\Client.java	10	To avoid mistakes add a comment at the beginning of the Client constructor if you want a default access modifier
16	D:\File Transfer Socket\src\Client.java	15	The method 'listenClient()' has a cognitive complexity of 23, current threshold is 15
17	D:\File Transfer Socket\src\Client.java	15	To avoid mistakes add a comment at the beginning of the listenClient method if you want a default access modifier
18	D:\File Transfer Socket\src\Client.java	15	Use explicit scoping instead of the default package private level
19	D:\File Transfer Socket\src\Client.java	16	To be compliant to J2EE, a webapp should not use any thread.
20	D:\File Transfer Socket\src\Client.java	28	Avoid using Literals in Conditional Statements

21	D:\File Transfer Socket\src\Client.java	29	Avoid instantiating new objects inside loops
22	D:\File Transfer Socket\src\Client.java	29	Local variable 'filePath' could be declared final
23	D:\File Transfer Socket\src\Client.java	30	Avoid instantiating new objects inside loops
24	D:\File Transfer Socket\src\Client.java	30	Local variable 'fileName' could be declared final
25	D:\File Transfer Socket\src\Client.java	32	Local variable 'pathSize' could be declared final
26	D:\File Transfer Socket\src\Client.java	37	Local variable 'nameSize' could be declared final
27	D:\File Transfer Socket\src\Client.java	44	Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block
28	D:\File Transfer Socket\src\Client.java	45	System.out.println is used
29	D:\File Transfer Socket\src\Client.java	52	Avoid variables with short names like s
30	D:\File Transfer Socket\src\Client.java	52	Parameter 'fileLocation' is not assigned and could be declared final
31	D:\File Transfer Socket\src\Client.java	52	Parameter 's' is not assigned and could be declared final
32	D:\File Transfer Socket\src\Client.java	52	To avoid mistakes add a comment at the beginning of the sendFile method if you want a default access modifier
33	D:\File Transfer Socket\src\Client.java	52	Use explicit scoping instead of the default package private level
34	D:\File Transfer Socket\src\Client.java	54	Local variable 'file' could be declared final
35	D:\File Transfer Socket\src\Client.java	55	Avoid instantiating FileInputStream, FileOutputStream, FileReader, or FileWriter
36	D:\File Transfer Socket\src\Client.java	55	Ensure that resources like this FileInputStream object are closed after use
37	D:\File Transfer Socket\src\Client.java	55	Local variable 'fileRead' could be declared final
38	D:\File Transfer Socket\src\Client.java	61	Local variable 'locationParts' could be declared final
39	D:\File Transfer Socket\src\Client.java	62	Local variable 'fileName' could be declared final
40	D:\File Transfer Socket\src\Client.java	63	Potential violation of Law of Demeter (object not created locally)
41	D:\File Transfer Socket\src\Client.java	69	Local variable 'buffer' could be declared final
42	D:\File Transfer Socket\src\Client.java	70	Found 'DD'-anomaly for variable 'bytes' (lines '70'-'71').
43	D:\File Transfer Socket\src\Client.java	70	The initializer for variable 'bytes' is never used (overwritten on line 71).

44	D:\File Transfer Socket\src\Client.java	71	Avoid assignments in operands
45	D:\File Transfer Socket\src\Client.java	71	Found 'DU'-anomaly for variable 'bytes' (lines '71'-'80').
46	D:\File Transfer Socket\src\Client.java	77	Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block
47	D:\File Transfer Socket\src\Client.java	78	Avoid printStackTrace(); use a logger call instead.
48	D:\File Transfer Socket\src\Client.java	82	Parameter 'fileName' is not assigned and could be declared final
49	D:\File Transfer Socket\src\Client.java	82	Parameter 'filePath' is not assigned and could be declared final
50	D:\File Transfer Socket\src\Client.java	82	To avoid mistakes add a comment at the beginning of the receiveContents method if you want a default access modifier
51	D:\File Transfer Socket\src\Client.java	82	Use explicit scoping instead of the default package private level
52	D:\File Transfer Socket\src\Client.java	84	Local variable 'folder' could be declared final
53	D:\File Transfer Socket\src\Client.java	88	Avoid instantiating FileInputStream, FileOutputStream, FileReader, or FileWriter
54	D:\File Transfer Socket\src\Client.java	88	Ensure that resources like this FileOutputStream object are closed after use
55	D:\File Transfer Socket\src\Client.java	88	Local variable 'writeFile' could be declared final
56	D:\File Transfer Socket\src\Client.java	92	Found 'DD'-anomaly for variable 'bytes' (lines '92'-'94').
57	D:\File Transfer Socket\src\Client.java	92	The initializer for variable 'bytes' is never used (overwritten on line 94)
58	D:\File Transfer Socket\src\Client.java	93	Local variable 'buffer' could be declared final
59	D:\File Transfer Socket\src\Client.java	94	Avoid assignments in operands
60	D:\File Transfer Socket\src\Client.java	94	Found 'DU'-anomaly for variable 'bytes' (lines '94'-'104').
61	D:\File Transfer Socket\src\Client.java	101	Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block
62	D:\File Transfer Socket\src\Client.java	102	Avoid printStackTrace(); use a logger call instead.
63	D:\File Transfer Socket\src\Client.java	108	A method/constructor should not explicitly throw java.lang.Exception
64	D:\File Transfer Socket\src\Client.java	108	Parameter 'args' is not assigned and could be declared final
65	D:\File Transfer Socket\src\Client.java	108	Public method and constructor comments are required
66	D:\File Transfer Socket\src\Client.java	109	Avoid variables with short names like sc

67	D:\File Transfer	100	
67	Socket\src\Client.java	109	Ensure that resources like this InputStream object are closed after use
68	D:\File Transfer Socket\src\Client.java	109	Local variable 'sc' could be declared final
69	D:\File Transfer Socket\src\Client.java	110	System.out.print is used
70	D:\File Transfer Socket\src\Client.java	111	Avoid variables with short names like ip
71	D:\File Transfer Socket\src\Client.java	111	Local variable 'ip' could be declared final
72	D:\File Transfer Socket\src\Client.java	112	System.out.println is used
73	D:\File Transfer Socket\src\Client.java	113	Avoid variables with short names like s
74	D:\File Transfer Socket\src\Client.java	113	Ensure that resources like this Socket object are closed after use
75	D:\File Transfer Socket\src\Client.java	113	Local variable 's' could be declared final
76	D:\File Transfer Socket\src\Client.java	114	Avoid variables with short names like c
77	D:\File Transfer Socket\src\Client.java	114	Local variable 'c' could be declared final
78	D:\File Transfer Socket\src\Client.java	117	Local variable 'location' could be declared final
79	D:\File Transfer Socket\src\Client.java	121	Potential violation of Law of Demeter (static property access)
80	D:\File Transfer Socket\src\Client.java	122	Potential violation of Law of Demeter (static property access)
81	D:\File Transfer Socket\src\Server.java	6	All classes, interfaces, enums and annotations must belong to a named package
82	D:\File Transfer Socket\src\Server.java	6	Class comments are required
83	D:\File Transfer Socket\src\Server.java	7	Avoid using implementation types like 'ArrayList'; use the interface instead
84	D:\File Transfer Socket\src\Server.java	7	Field comments are required
85	D:\File Transfer Socket\src\Server.java	7	To avoid mistakes add a comment at the beginning of the clientHandlers field if you want a default access modifier
86	D:\File Transfer Socket\src\Server.java	7	Unnecessary semicolon
87	D:\File Transfer Socket\src\Server.java	7	Use explicit scoping instead of the default package private level
88	D:\File Transfer Socket\src\Server.java	8	Avoid variables with short names like ss
89	D:\File Transfer Socket\src\Server.java	8	Parameter 'ss' is not assigned and could be declared final

D:\File Transfer Socket\src\Server.java	8	To avoid mistakes add a comment at the beginning of the Server constructor if you want a default access modifier
D:\File Transfer Socket\src\Server.java	11	Avoid variables with short names like s
D:\File Transfer Socket\src\Server.java	11	Ensure that resources like this Socket object are closed after use
D:\File Transfer Socket\src\Server.java	11	Local variable 's' could be declared final
D:\File Transfer Socket\src\Server.java	12	System.out.println is used
D:\File Transfer Socket\src\Server.java	13	Avoid instantiating new objects inside loops
D:\File Transfer Socket\src\Server.java	13	Local variable 'clientHandler' could be declared final
D:\File Transfer Socket\src\Server.java	15	Avoid instantiating new objects inside loops
D:\File Transfer Socket\src\Server.java	15	Local variable 'client' could be declared final
D:\File Transfer Socket\src\Server.java	15	To be compliant to J2EE, a webapp should not use any thread.
D:\File Transfer Socket\src\Server.java	18	Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block
D:\File Transfer Socket\src\Server.java	19	Avoid printStackTrace(); use a logger call instead.
D:\File Transfer Socket\src\Server.java	23	A method/constructor should not explicitly throw java.lang.Exception
D:\File Transfer Socket\src\Server.java	23	Parameter 'args' is not assigned and could be declared final
D:\File Transfer Socket\src\Server.java	23	Public method and constructor comments are required
D:\File Transfer Socket\src\Server.java	24	Avoid variables with short names like ss
D:\File Transfer Socket\src\Server.java	24	Ensure that resources like this ServerSocket object are closed after use
D:\File Transfer Socket\src\Server.java	24	Local variable 'ss' could be declared final
D:\File Transfer Socket\src\Server.java	29	Class comments are required
D:\File Transfer Socket\src\Server.java	30	Field comments are required
D:\File Transfer Socket\src\Server.java	30	To avoid mistakes add a comment at the beginning of the server field if you want a default access modifier
D:\File Transfer Socket\src\Server.java	30	Use explicit scoping instead of the default package private level
D:\File Transfer Socket\src\Server.java	31	Avoid excessively long variable names like currentClientHandler
	D:\File Transfer Socket\src\Server.java D:\File Transfer	D:\File Transfer Socket\src\Server.java D:\File Transfer

113 D:\File Transfer Socket\src\Server.java	31 Field comments are required	
114 D:\File Transfer Socket\src\Server.java	To avoid mistakes add a comment at the beginning of the currentClientHandler field if you want a default access modifier	
115 D:\File Transfer Socket\src\Server.java	31 <u>Use explicit scoping instead of the default package private level</u>	
116 D:\File Transfer Socket\src\Server.java	32 Field comments are required	
117 D:\File Transfer Socket\src\Server.java	32 To avoid mistakes add a comment at the beginning of the receive fiel if you want a default access modifier	<u>d</u>
118 D:\File Transfer Socket\src\Server.java	32 <u>Use explicit scoping instead of the default package private level</u>	
119 D:\File Transfer Socket\src\Server.java	33 Avoid unused private fields such as 's'.	
120 D:\File Transfer Socket\src\Server.java	33 Avoid variables with short names like s	
121 D:\File Transfer Socket\src\Server.java	33 Field comments are required	
122 D:\File Transfer Socket\src\Server.java	33 Perhaps 's' could be replaced by a local variable.	
123 D:\File Transfer Socket\src\Server.java	Private field 's' could be made final; it is only initialized in the declaration or constructor.	
124 D:\File Transfer Socket\src\Server.java	34 Field comments are required	
125 D:\File Transfer Socket\src\Server.java	To avoid mistakes add a comment at the beginning of the readData field if you want a default access modifier	
126 D:\File Transfer Socket\src\Server.java	34 <u>Use explicit scoping instead of the default package private level</u>	
127 D:\File Transfer Socket\src\Server.java	35 Field comments are required	
128 D:\File Transfer Socket\src\Server.java	To avoid mistakes add a comment at the beginning of the sendClient field if you want a default access modifier	
129 D:\File Transfer Socket\src\Server.java	35 <u>Use explicit scoping instead of the default package private level</u>	
130 D:\File Transfer Socket\src\Server.java	38 A method/constructor should not explicitly throw java.lang.Exception	<u>n</u>
131 D:\File Transfer Socket\src\Server.java	38 Avoid variables with short names like s	
132 D:\File Transfer Socket\src\Server.java	38 Parameter 's' is not assigned and could be declared final	
133 D:\File Transfer Socket\src\Server.java	38 Parameter 'server' is not assigned and could be declared final	
134 D:\File Transfer Socket\src\Server.java	To avoid mistakes add a comment at the beginning of the ClientHandler constructor if you want a default access modifier	
135 D:\File Transfer Socket\src\Server.java	46 Public method and constructor comments are required	

136	D:\File Transfer Socket\src\Server.java	57	Avoid using Literals in Conditional Statements
137	D:\File Transfer Socket\src\Server.java	59	Local variable 'nameLength' could be declared final
138	D:\File Transfer Socket\src\Server.java	60	Avoid instantiating new objects inside loops
139	D:\File Transfer Socket\src\Server.java	60	Local variable 'fileName' could be declared final
140	D:\File Transfer Socket\src\Server.java	65	Local variable 'file' could be declared final
141	D:\File Transfer Socket\src\Server.java	69	Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block
142	Socket\src\Server.java	70	System.out.println is used
143	Socket\src\Server.java	74	Parameter 'fileName' is not assigned and could be declared final
144	Socket\src\Server.java	74	Parameter 'filePath' is not assigned and could be declared final
145	Socket\src\Server.java	74	To avoid mistakes add a comment at the beginning of the sendOtherClients method if you want a default access modifier
146	Socket\src\Server.java	74	<u>Use explicit scoping instead of the default package private level</u>
147	Socket\src\Server.java	76	Local variable 'client' could be declared final
148	Socket\src\Server.java	77	Avoid using if statements without curly braces
149	Socket\src\Server.java	77	This statement should have braces
150	Socket\src\Server.java	82	Parameter 'client' is not assigned and could be declared final
151	Socket\src\Server.java	82	Parameter 'fileName' is not assigned and could be declared final
152	Socket\src\Server.java	82	Parameter 'filePath' is not assigned and could be declared final
153	Socket\src\Server.java	82	To avoid mistakes add a comment at the beginning of the sendContents method if you want a default access modifier
154	D:\File Transfer Socket\src\Server.java	82	Use explicit scoping instead of the default package private level
155	D:\File Transfer Socket\src\Server.java	84	Potential violation of Law of Demeter (static property access)
156	Socket\src\Server.java	86	Potential violation of Law of Demeter (static property access)
157	D:\File Transfer Socket\src\Server.java	87	Potential violation of Law of Demeter (static property access)
158	D:\File Transfer Socket\src\Server.java	88	Potential violation of Law of Demeter (static property access)

159 D:\File Transfer Socket\src\Server.java	89	Potential violation of Law of Demeter (static property access)
160 D:\File Transfer Socket\src\Server.java	90	Potential violation of Law of Demeter (static property access)
161 D:\File Transfer Socket\src\Server.java	91	Potential violation of Law of Demeter (static property access)
162 D:\File Transfer Socket\src\Server.java	92	Potential violation of Law of Demeter (static property access)
163 D:\File Transfer Socket\src\Server.java	93	Potential violation of Law of Demeter (static property access)
164 D:\File Transfer Socket\src\Server.java	97	Potential violation of Law of Demeter (static property access)
165 D:\File Transfer Socket\src\Server.java	99	Found 'DD'-anomaly for variable 'bytes' (lines '99'-'101').
166 D:\File Transfer Socket\src\Server.java	99	The initializer for variable 'bytes' is never used (overwritten on line 101).
167 D:\File Transfer Socket\src\Server.java	100	Local variable 'buffer' could be declared final
168 D:\File Transfer Socket\src\Server.java	101	Avoid assignments in operands
169 D:\File Transfer Socket\src\Server.java	101	Found 'DU'-anomaly for variable 'bytes' (lines '101'-'110').
170 D:\File Transfer Socket\src\Server.java	102	Potential violation of Law of Demeter (static property access)
171 D:\File Transfer Socket\src\Server.java	103	Potential violation of Law of Demeter (static property access)
172 D:\File Transfer Socket\src\Server.java	107	Avoid catching generic exceptions such as NullPointerException, RuntimeException, Exception in try-catch block
173 D:\File Transfer Socket\src\Server.java	108	Avoid printStackTrace(); use a logger call instead.