
NOTE: line numbers are keyed to the line numbers in the PDF files.

chatkarol2mClient.java questions:

- 1) What is the relationship between a Panel (line 7) and an Applet?
- 2) Why didn't the send and exit buttons display correctly (lines 63-64)?
- 3) What is 'super' (line 104)?
- 4) When is finalize() invoked and what is it used for (line 92)?
- 5) What is 'finally' (line 177)?
- 6) Why does main() create a new instance of the application's class (line 38)?
- 7) For what is try/catch used (lines 73-89)?
- 8) The chatkarol2mClientReceive class (lines 151-189) has no start() method, but its start() method is invoked in line 83. What's going on?
- 9) What is a Thread (line 151)?
- 10) Are two frames (lines 32-41) necessary?
- 11) What is 'synchronized' and why is its use in line 160 unnecessary?
- 12) Why do sent messages immediately disappear (study the TextActionHandler() beginning on line 132)?
- 13) Why can you see only one received message at a time (study the chatkarol2mClientReceive class starting on line 151)? How would you fix that so that you could see multiple received messages?

chatkarol2mClient.java questions:

- 1) Why is ServerHelper's constructor declared as throwing an IOException (lines 80-81)?
- 2) Explain why access to the clients Vector (line 10) has to be synchronized (lines 62, 67). Can you find the two code sections in which access to the clients Vector is not properly synchronized?
- 3) Explain why you never receive your own messages (refer to broadcast() starting at line 117).