```
1
     import ChatApp.*;
                                 // The package containing our stubs
 2
     import org.omg.CosNaming.*;// HelloClient will use the naming service.
 3
     import org.omg.CosNaming.NamingContextPackage.*;
 4
     import org.omg.CORBA.*;
                                 // All CORBA applications need these classes.
 5
     import org.omg.PortableServer.*;
 6
     import org.omg.PortableServer.POA;
 7
 8
     import java.util.*;
 9
     import java.util.Scanner;
10
11
12
     class ChatCallbackImpl extends ChatCallbackPOA {
13
       private ORB orb;
14
15
       public void setORB(ORB orb val) {
16
         orb = orb val;
17
       }
18
19
       public void callback(String notification)
20
21
         System.out.println(notification);
22
     }
23
24
25
     public class ChatClient {
       static Chat chatImpl;
26
27
       public static void main(String args[]) {
28
29
         try
30
         {
31
           // create and initialize the ORB
32
           ORB orb = ORB.init(args, null);
33
34
           // create servant (impl) and register it with the ORB
35
           ChatCallbackImpl chatCallbackImpl = new ChatCallbackImpl();
           chatCallbackImpl.setORB(orb);
36
37
           // get reference to RootPOA and activate the POAManager
38
39
           POA rootpoa =
           POAHelper.narrow(orb.resolve initial references("RootPOA"));
40
41
             rootpoa.the POAManager().activate();
42
43
           // get the root naming context
44
           org.omg.CORBA.Object objRef =
45
           orb.resolve initial references("NameService");
           NamingContextExt ncRef = NamingContextExtHelper.narrow(objRef);
46
47
48
           // resolve the object reference in naming
49
           String name = "Chat";
50
           chatImpl = ChatHelper.narrow(ncRef.resolve_str(name));
51
52
           // obtain callback reference for registration w/ server
53
           org.omg.CORBA.Object ref =
           rootpoa.servant_to_reference(chatCallbackImpl);
54
55
           ChatCallback cref = ChatCallbackHelper.narrow(ref);
56
57
           // Application code goes below
```

```
58
            System.out.println("Welcome to the chat server!");
 59
            System.out.println("Please input command...");
 60
 61
            boolean quit = false;
 62
            Scanner scanner = new Scanner(System.in);
 63
 64
            while(!quit)
 65
              //Get user input
 66
 67
              String input = scanner.nextLine();
 68
 69
              //First word is command, rest is argument
              String command = input.split(" ")[0];
 70
              String arguments = input.substring(input.indexOf(" ")+1, input.length());
 71
 72
              //Look which command was used
 73
 74
              if (command.equals("join"))
 75
              {
 76
                chatImpl.join(cref, arguments);
 77
              }
              else if(command.equals("leave"))
 78
 79
                chatImpl.leave(cref);
 80
              }
 81
 82
              else if(command.equals("list"))
 83
              {
 84
                chatImpl.list(cref);
 85
              }
              else if(command.equals("post"))
 86
 87
              {
 88
                chatImpl.post(cref, arguments);
 89
              }
              else if(command.equals("help"))
 90
 91
 92
                String errorMsg = "Available commands:\n";
 93
                errorMsg+="join <username>\nleave\nlist\npost <message>\nquit\ngomoku
                <color>\nadd <x> <y>";
 94
                System.out.println(errorMsg);
 95
              }
 96
              else if(command.equals("quit"))
 97
              {
 98
                //Leave user, then quit
 99
                chatImpl.leave(cref);
100
                quit = true;
101
              }
              else if(command.equals("gomoku"))
102
103
              {
104
                chatImpl.gomoku(cref, arguments);
105
106
              else if(command.equals("add") || command.equals("a"))
107
              {
108
                try
109
                 {
                   //Get first and second argument of the arguments
110
111
                  int x = Integer.parseInt(arguments.split(" ")[0]);
112
                  int y = Integer.parseInt(arguments.split(" ")[1]);
113
                  //Subtract 1 to get correct coordinates
```

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```
114
                  //(correct in the means of how a coordinate system is represented)
115
                  chatImpl.add(cref, x-1, y-1);
116
                }
117
                catch(Exception e)
118
119
                  System.out.println(arguments + " are not valid coordinates");
                }
120
121
              }
122
              else
123
              {
                System.out.println("\n'" + command + "' is not a valid command\nUse
124
                                                                                             ₽
                command 'help' for a list of available commands");
125
              }
126
            }
127
          }
          catch(Exception e) {
128
129
              System.out.println("ERROR : " + e);
130
              e.printStackTrace(System.out);
131
          }
132
        }
133
      }
134
```