

```
1: // $Id: chatter.java,v 1.1 2010-02-23 19:35:28-08 - - $
2:
3: class chatter {
4:
5:     static class options {
6:         String traceflags;
7:         boolean client_is_gui;
8:         boolean is_server;
9:         String server_hostname;
10:        int server_portnumber;
11:        String username;
12:        options (String[] args) {
13:        }
14:    }
15:
16:    public static void main (String[] args) {
17:        options opts = new options (args);
18:    }
19:
20: }
```

```
1: // $Id: client.java,v 1.1 2010-02-23 19:35:28-08 - - $
2:
3: class client {
4:
5:     static class receiver implements Runnable {
6:         public void run () {
7:             }
8:     }
9:
10:    static class sender implements Runnable {
11:        public void run () {
12:            }
13:    }
14:
15: }
```

```
1: // $Id: gui.java,v 1.1 2010-02-23 19:35:28-08 - - $
2:
3: class gui {
4:
5:     static class receiver implements Runnable {
6:         public void run () {
7:             }
8:     }
9:
10:    static class sender implements Runnable {
11:        public void run () {
12:            }
13:    }
14:
15: }
16:
```

```
1: // $Id: server.java,v 1.1 2010-02-23 19:35:28-08 - - $
2:
3: import java.io.*;
4: import java.net.*;
5: import java.util.*;
6: import static java.lang.System.*;
7:
8: class server {
9:     private ServerSocket socket;
10:
11:     server (chatter.options opts) {
12:     }
13:
14:     static class receiver implements Runnable {
15:         public void run () {
16:         }
17:     }
18:
19:     static class sender implements Runnable {
20:         public void run () {
21:         }
22:     }
23:
24: }
```

```
1: # $Id: Makefile,v 1.2 2010-02-23 19:47:57-08 - - $
2:
3: JAVASRC      = chatter.java client.java gui.java server.java
4: SOURCES      = ${JAVASRC} Makefile README
5: MAINCLASS    = chatter
6: CLASSES      = ${JAVASRC:.java=.class}
7: INNERCLASSES = chatter\$$options.class \
8:               client\$$receiver.class client\$$sender.class \
9:               gui\$$receiver.class gui\$$sender.class \
10:              server\$$receiver.class server\$$sender.class
11: JARCLASSES   = ${CLASSES} ${INNERCLASSES}
12: JARFILE       = chatter
13: LISTING       = ../asg5-chatter.code.ps
14:
15: all : ${JARFILE}
16:
17: ${JARFILE} : ${CLASSES}
18:     echo Main-class: ${MAINCLASS} >Manifest
19:     jar cvfm ${JARFILE} Manifest ${JARCLASSES}
20:     - rm Manifest
21:     chmod +x ${JARFILE}
22:
23: %.class : %.java
24:     javac $<
25:
26: lis : ${SOURCES} all
27:     mkpspdf ${LISTING} ${SOURCES}
28:
29: clean :
30:     - rm ${JARCLASSES}
31:
32: spotless : clean
33:     - rm ${JARFILE}
34:
35: ci : ${SOURCES}
36:     checksource ${SOURCES}
37:     cid + ${SOURCES}
38:
39: submit : ${SOURCES}
40:     submit cmps109-wm.w10 asg5 ${SOURCES}
41:
```

1: \$Id: README,v 1.1 2010-02-23 19:35:28-08 - - \$