

```
1 import java.net.*;
2 import java.io.*;
3 import java.util.Scanner;
4
5 public class EavesdropperUDP{
6     public static void main(String args[]){
7         System.out.println("The eavesdropper is
      running."); // lab instructions
8         DatagramSocket listenSocket = null;
9         DatagramSocket masqueradeSocket = null;
10
11         byte[] buffer = new byte[1000]; // create a
      buffer to receiver server packet
12
13         try{
14             InetAddress aHost = InetAddress.
      getByName("localhost");
15
16             // listen port code
17             System.out.print("Input a server port
      number to listen to: ");
18             Scanner readline = new Scanner(System.
      in);
19             int listenPort = readline.nextInt();
      // convert to int
20
21             listenSocket = new DatagramSocket(
      listenPort);
22             listenSocket.setReuseAddress(true);
23
24             // masquerade port code
25             System.out.print("Input a server port
      number to masquerade as: ");
26             int masqueradePort = readline.nextInt
      (); // convert to int
27
28             masqueradeSocket = new DatagramSocket
      ();
29             masqueradeSocket.setReuseAddress(true);
30
31             DatagramPacket request = new
```

```
31 DatagramPacket(buffer, buffer.length); // syntax  
   for buffer  
32  
33         while(true){ // loop to continue until  
           'halt!' is sent  
34             // get response from client  
35             listenSocket.receive(request);  
36             String requestString = new String(  
request.getData()).substring(0,request.getLength  
());  
37             System.out.println("\nFrom Client  
: "+ requestString);  
38  
39             // send to server  
40             byte [] m = requestString.getBytes  
(// convert console in into byte packets  
);  
41             DatagramPacket reply = new  
DatagramPacket(m, m.length, aHost, masqueradePort);  
42             masqueradeSocket.send(reply); //  
           send packet  
43  
44             System.out.println("Sending to  
Server: "+ requestString);  
45  
46             // get response from server  
47             DatagramPacket response = new  
DatagramPacket(buffer, buffer.length); // syntax  
           for buffer  
48             masqueradeSocket.receive(response);  
49             String responseString = new String(  
response.getData()).substring(0,response.getLength  
());  
50  
51             System.out.println("From Server: "  
+ responseString);  
52  
53             // send to client  
54             response = new DatagramPacket(  
response.getData(), response.getLength(), request.  
getAddress(), request.getPort());  
55             listenSocket.send(response); //
```

```
55 send packet
56
57             System.out.println("Sending to
client: "+ responseString);
58
59             // halt logic
60             if(requestString.equalsIgnoreCase("
halt!"))){
61                 System.out.print(
"*****");
62                 System.out.print(" halt!
message arrived *****");
63             }
64
65
66         }
67         // catch potential exceptions
68         }catch (SocketException e){System.out.
println("Socket: " + e.getMessage());
69         }catch (IOException e) {System.out.println(
"IO: " + e.getMessage());
70         }finally {
71             if(listenSocket != null) listenSocket.
close();
72             if(masqueradeSocket != null)
masqueradeSocket.close();
73         }
74     }
75 }
```