```
1 import io.opentelemetry.api.GlobalOpenTelemetry;
 2 import io.opentelemetry.api.trace.Span;
 3 import io.opentelemetry.api.trace.Tracer;
 4 import io.opentelemetry.api.trace.TracerProvider;
 5 import io.opentelemetry.context.Scope;
 6
7 import java.io.*;
8 import java.net.Socket;
9 import java.util.UUID;
10
11 public class client {
12
       public static void main(String[] args) {
           System.setProperty("otel.tracer.provider", "
13
   io.opentelemetry.api.trace.propagation.
   B3Propagator$Factory");
14
15
           try {
16
               System.out.println("Connecting to the
   server...");
17
18
               // Create a socket and connect to the
   server on localhost, port 8080
19
               Socket socket = new Socket("localhost",
   8080);
20
               System.out.println("Connected to the
21
   server.");
22
23
               // Start a new span for the client
   operation
24
               TracerProvider tracerProvider =
   GlobalOpenTelemetry.getTracerProvider();
               Tracer tracer = tracerProvider.get("
25
   client-tracer");
26
27
               // Manually create a span for the client
   operation
28
               Span span = tracer.spanBuilder("client-
   operation").startSpan();
29
30
               // Create a scope to manage the span's
```

```
30 lifecycle
31
               try (Scope scope = span.makeCurrent()) {
                   // Create input and output streams
32
   for communication with the server
33
                   BufferedReader in = new
   BufferedReader(new InputStreamReader(socket.
   qetInputStream()));
34
                    PrintWriter out = new PrintWriter(
   socket.getOutputStream(), true);
35
                   // Specify the folder path on the
36
   client side
37
                   String desktopPath = System.
   qetProperty("user.home") + "/Desktop" + "/Files";
38
                   File folder = new File(desktopPath);
39
40
                   // List files in the folder
41
                   File[] files = folder.listFiles();
42
                    if (files == null) {
43
                        System.err.println("No files
   found in the folder: " + desktopPath);
44
                        return;
45
                   }
46
47
                   // Send the number of files to the
   server
48
                   out.println(files.length);
49
50
                   // Send up to 20 files at a time
                   int filesToSend = Math.min(20, files.
51
   length);
52
                   for (int i = 0; i < filesToSend; i</pre>
   ++) {
53
                        File file = files[i];
54
55
                        // Send the file name to the
   server
56
                        out.println(file.getName());
57
58
                        // Read the file content and send
    it to the server
```

```
try (BufferedReader fileReader =
59
   new BufferedReader(new FileReader(file))) {
60
                            String line;
61
                            while ((line = fileReader.
   readLine()) != null) {
                                out.println(line);
62
63
                            }
                        }
64
65
                        System.out.println("File sent: "
66
    + file.getName());
67
                    }
68
69
                    // Close the streams and socket
                    in.close();
70
                    out.close();
71
                    socket.close();
72
73
               } finally {
74
                    // End the span when the operation is
    complete
75
                    span.end();
               }
76
           } catch (IOException e) {
77
               System.err.println("Connection failed.
78
   Make sure the server is running and check your
   firewall settings.");
79
               e.printStackTrace();
80
           }
81
       }
82 }
83
```