```
import java.io.IOException;
 2
     import java.net.URI;
 3
 4
 5
     import org.apache.hadoop.conf.Configuration;
 6
     import org.apache.hadoop.fs.FSDataInputStream;
 7
     import org.apache.hadoop.fs.FSDataOutputStream;
8
     import org.apache.hadoop.fs.FileStatus;
9
     import org.apache.hadoop.fs.FileSystem;
10
     import org.apache.hadoop.fs.Path;
11
12
     // The program merges all files located at a folder on a local file system and
     // loads the outcomes of merge to HDFS as a single file
13
14
15
     public class solution1 {
16
17
         public static void main(String[] args) throws IOException {
18
19
     // The program has two parameters:
20
         a path to folder on a local file system with the files to be merged
21
          a path and a name of file that contains the results of merge in HDFS
22
             String localStr = args[0];
23
             String hdfsStr = args[1];
24
25
     // We start from creation of a an object with HDFS configuration
26
             Configuration conf = new Configuration();
27
     // Next, we create handles for input folder at a local file system and
28
29
     // and handle for output file in HDFS
30
             FileSystem hdfs = FileSystem.get(URI.create(hdfsStr), conf);
31
             FileSystem local = FileSystem.getLocal(conf);
32
33
     // Next, we create a string with a path a name of a folder with input files and ..
34
             Path inputDir = new Path(localStr);
35
             String folderName = inputDir.getName();
36
     // ... a path to a file in HDFS
37
             Path hdfsFile = new Path(hdfsStr, folderName);
38
39
             try {
40
     // Next, we create a list of names of files localed in a folder on a local file system
     and ...
41
             FileStatus[] inputFiles = local.listStatus(inputDir);
42
     // ... and a handle output file in HDFS
43
                 FSDataOutputStream out = hdfs.create(hdfsFile);
44
45
     // Next, we iterate over the files in a folder on a local file system and we copy the
     files
46
     // to a buffer and buffer is immediately written to an output file in HDFS
47
                 for (int i=0; i<inputFiles.length; i++) {</pre>
48
                     System.out.println(inputFiles[i].getPath().getName());
49
                     FSDataInputStream in = local.open(inputFiles[i].getPath());
50
                     byte buffer[] = new byte[256];
51
                     int bytesRead = 0;
52
                     while( (bytesRead = in.read(buffer)) > 0) {
53
                         out.write(buffer, 0, bytesRead);
54
                     }
55
                     in.close();
56
                 }
57
                 out.close();
58
             } catch (IOException e) {
59
                 e.printStackTrace();
60
             }
61
         }
62
     }
```