```
1 package Phase1project;
 2
 3 import java.io.File;
4 import java.io.FileNotFoundException;
5 import java.io.FileOutputStream;
6 import java.io.IOException;
7 import java.util.Arrays;
8 import java.util.Scanner;
9 import java.util.Set;
10 import java.util.TreeSet;
11 import java.util.regex.Matcher;
12 import java.util.regex.Pattern;
13
14 public class Filehandle
15
16
           public void listAllFiles(String path)
17
18
19
          if (path == null || path.isEmpty() || path.isBlank()
20
21
              throw new NullPointerException("Path cannot be Empty or null");
22
23
24
          File dir = new File(path);
25
          if(!dir.exists(
26
27
              throw new IllegalArgumentException("Path does not exist");
28
29
          if(dir.isFile()
30
              throw new IllegalArgumentException ("The given path is a file. A directory is
  expected.");
31
32
33
34
          String files[] = dir.list();
          35
36
37
          if(files != null && files.length > 0)
38
39
              Set<String>filesList = new TreeSet<String>(Arrays.asList(files));
40
              System.out.println("The Files in "+ dir.getAbsolutePath() + " are: \n");
41
42
              for(String file1:files) {
43
44
                 System.out.println(file1);
45
46
47
48
              System.out.println("\nTotal Number of files: "+ filesList.size());
49
          else
50
51
              System.out.println("Directory is Empty");
52
53
54
55
56
```

```
System.out.println("READING :-> SUCCESSFUL");
170
171
             System.out.println("-----");
             sc.close()
172
173
           catch (FileNotFoundException e) {
174
             e.printStackTrace(
             System.out.println("----");
175
             System.out.println("READING :-> FAILED");
176
             System.out.println("-----");
177
178
179
180
181
182
           public static void writeFile(String filename, String path)
183
184
185
             File myFile = new File(path + File.separator + filename);
186
187
           try
188
189
190
                 Scanner in = new Scanner(System.in);
                 System.out.println("-----");
191
                 System.out.println("***** START WRITING *****");
192
                 String Str = in.nextLine();
193
194
                 FileOutputStream fileout = new FileOutputStream(myFile);
195
                 byte b[] = Str.getBytes();
196
                 fileout write(b);
                 System.out.println("-----");
197
198
                 fileout.close();
                 199
200
                 System.out.println("WRITING :-> SUCCESSFUL");
                 201
202
203
           catch(Exception e)
204
205
206
              System.out.println(e);
              207
              System.out.println("WRITING :-> FAILED");
208
              209
210
211
212
213
214
215
216
217
218
```