

assignment-1_1\src\main\java\package4\Folder.java

```
1 package main.java.package4;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 public class Folder {
7     private String folderName;
8     private List<File> files;
9     private List<Folder> subFolders;
10
11     public Folder(String folderName){
12         this.folderName = folderName;
13         this.files = new ArrayList<>();
14         this.subFolders = new ArrayList<>();
15     }
16
17     public String getFolderName() {return folderName;}
18     public List<File> getFiles() {return files;}
19     public List<Folder> getSubFolders() {return subFolders;}
20
21     public void setFolderName(String folderName) {this.folderName = folderName;}
22     public void setFiles(List<File> files) {this.files = files;}
23     public void setSubFolders(List<Folder> subFolders) {this.subFolders = subFolders;}
24
25     public void addFile(File file){files.add(file);}
26     public void addSubFolder(Folder subFolder){subFolders.add(subFolder);}
27
28     public void delete(){
29         for (File file: files){
30             System.out.println("Deleting file: " + file.getFileName());
31         }
32         files.clear();
33
34         for (Folder subFolder: subFolders){
35             System.out.println("Deleteing folder: " + subFolder.getFolderName());
36             subFolder.delete();
37         }
38         subFolders.clear();
39
40         this.files.clear();
41         this.subFolders.clear();
42
43         // Added this method to also remove folder itself
44         removeFromParent(this);
45     }
46
47     public void print(){
48         System.out.println("Folder: " + folderName);
49         for (File file: files){
50             file.print();
51         }
52         for (Folder subFolder: subFolders){
53             subFolder.print();
```

```
54     }
55 }
56
57 private void removeFromParent(Folder folder){
58     if (parent != null){
59         parent.subFolders.remove(folder);
60     }
61 }
62
63 // added this portion to keep track of parent
64 private Folder parent;
65 public Folder getParent() {return parent;}
66 public void setParent(Folder parent) {this.parent = parent;}
67 }
```