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Selected files

3 printable files

```
CS5800 Q5\src\com\cpp\cs5800q5\CS5800 Q5.java
CS5800 Q5\src\com\cpp\cs5800q5\File.java
CS5800_Q5\src\com\cpp\cs5800q5\Folder.java
CS5800_Q5\src\com\cpp\cs5800q5\CS5800_Q5.java
    package com.cpp.cs5800q5;
2
 3
    public class CS5800_Q5 {
        public static void main(String[] args) {
4
 5
            // root folder
 6
            Folder phpDemo1 = new Folder("php_demo1");
 7
            Folder sourceFiles = new Folder("Source Files");
8
9
            Folder includePath = new Folder("Include Path");
10
            Folder remoteFiles = new Folder("Remote Files");
11
            phpDemo1.addFolder(sourceFiles);
12
            phpDemo1.addFolder(includePath);
            phpDemo1.addFolder(remoteFiles);
13
14
15
            // inside source files folder
            Folder phalcon = new Folder(".phalcon");
16
17
            Folder app = new Folder("app");
            Folder cache = new Folder("cache");
18
19
            Folder publicFolder = new Folder("public");
20
            sourceFiles.addFolder(phalcon);
            sourceFiles.addFolder(app);
21
22
            sourceFiles.addFolder(cache);
            sourceFiles.addFolder(publicFolder);
23
            sourceFiles.addFile(new File(".htaccess"));
24
            sourceFiles.addFile(new File(".htrouter.php"));
25
            sourceFiles.addFile(new File("index.html"));
26
27
28
            // inside app folder
```

```
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              Folder config = new Folder("config");
 29
              Folder controllers = new Folder("controllers");
  30
              Folder library = new Folder("library");
  31
  32
              Folder migrations = new Folder("migrations");
  33
              Folder models = new Folder("models");
              Folder views = new Folder("views");
  34
              app.addFolder(config);
  35
              app.addFolder(controllers);
  36
              app.addFolder(library);
  37
              app.addFolder(migrations);
  38
              app.addFolder(models);
  39
 40
              app.addFolder(views);
 41
              System.out.println("Folder structure: ");
 42
              phpDemo1.print("");
 43
              System.out.println();
 44
 45
              // Delete the "app" folder
 46
              System.out.println("Removal of app folder: ");
 47
 48
              sourceFiles.removeFolder("app");
              phpDemo1.print("");
 49
              System.out.println();
 50
 51
              // Delete the "public" folder
 52
              System.out.println("Removal of public folder: ");
 53
 54
              sourceFiles.removeFolder("public");
 55
              phpDemo1.print("");
 56
              System.out.println();
 57
  58
          }
  59
  60
 61
```

CS5800_Q5\src\com\cpp\cs5800q5\File.java

```
package com.cpp.cs5800q5;
```

62

```
public class File {
 4
        private String name;
        public File(String name) {
            this.name = name;
 7
 8
        }
 9
10
        public String getName() {
            return name;
11
12
        }
13
        public void setName(String name) {
14
15
            this.name = name;
16
        }
17
        public void print(String currentFileDirectory) {
18
19
            System.out.println(currentFileDirectory + this.name);
20
        }
21
22
23
24
```

CS5800_Q5\src\com\cpp\cs5800q5\Folder.java

```
package com.cpp.cs5800q5;
2
   import java.util.ArrayList;
   import java.util.List;
   public class Folder {
7
8
        private String name;
        private List<Folder> subFolders;
9
10
        private List<File> files;
11
        public Folder(String name) {
12
            this.name = name;
13
            this.subFolders = new ArrayList<>();
14
```

```
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              this.files = new ArrayList<>();
  15
  16
          }
  17
 18
          public String getName() {
  19
              return name;
  20
          }
  21
  22
          public void setName(String name) {
  23
              this.name = name;
  24
          }
  25
          public List<Folder> getSubFolders() {
  26
              return subFolders;
  27
  28
          }
  29
          public void setSubFolders(List<Folder> subFolders) {
  30
  31
              this.subFolders = subFolders;
  32
          }
  33
  34
          public List<File> getFiles() {
              return files;
  35
  36
          }
  37
          public void setFiles(List<File> files) {
  38
  39
              this.files = files;
  40
          }
  41
          public void addFolder(Folder folder) {
  42
  43
              this.subFolders.add(folder);
          }
  44
  45
          public void addFile(File file) {
  46
              this.files.add(file);
  47
  48
  49
          public void removeFolder(String folderName) {
  50
              subFolders.removeIf(folder -> folder.getName().equals(folderName));
  51
  52
          }
```

```
53
54
55
     public void print(String currentFolderDirectory) {
        System.out.println(currentFolderDirectory + " " + name);
56
57
        for(Folder folder : subFolders) {
58
          59
60
        }
61
62
        for(File file : files) {
          63
64
65
     }
66
```