Composite

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public interface Document {
       public void display();
       public void add(Document document);
       public void remove(Document document);
public class File implements Document {
       private String name;
       public File(String name) {
              this.name = name;
              System.out.println("creating new file....");
       @Override
       public void display() {System.out.println("[File]: " + name);}
       @Override
       public void add(Document document) {System.out.println("error");}
       @Override
       public void remove(Document document) {
              System.out.println("error");
public class Folder implements Document {
       private String name;
       private ArrayList<Document> folder = new ArrayList<Document>();
       public Folder(String name) {
              this.name = name;
              System.out.println("creating new folder....");
       @Override
       public void display() {
              System.out.println("[FOLDER]: " + name);
              for(Document document : folder) {
                      document.display();
               }
       public void add(Document document) {
               folder.add(document);
              System.out.println("adding file to the folder");
       @Override
       public void remove(Document document) {
               System.out.println("removing file to the folder");
            folder.remove(document);
       }
public class Client {
       public static void main(String[] args) {
              Document doc1 = new File("myFIle");
              doc1.display();
              Document doc2 = new File("secondFile");
              doc2.display();
              Folder folder = new Folder("myFolder");
              folder.add(doc1);
              folder.add(doc2);
              folder.display();
              folder.remove(doc1);
              folder.display();
       }
}
```