

# Imp (Composite Design Pattern)

interface FileSystem {

public void printFiles();

(Shriyansh Jain)

youtube

↓  
ls()

public class File implements FileSystem {

String fileName;

public File (String fileName) {

this.fileName = fileName;

}

@Override

public void printFiles() { print(fileName); }

public class Directory implements FileSystem {

List<FileSystem> fileSystems;

public Directory (List<FileSystem> fileSystems) {

this.fileSystems = fileSystems;

}

public void printFiles() {

for (int i = 0; i < fileSystems.size(); i++) {

if (fileSystems[i] instanceof File) fileSystems[i].ls();

else fileSystems[i].printFiles();

