( Main.java )

import java.util.\*;

interface Document{

void open();

}

class WordDoc implements Document{

public void open(){

System.out.println("WordDocument is Opening");

}

}

class Pdfdoc implements Document{

public void open(){

System.out.println("PDF is Opening");

}

}

class Excel implements Document{

public void open(){

System.out.println("Excel is Opening");

}

}

abstract class DocumentFactory{

public abstract Document createDocument();

}

class Wordfactory extends DocumentFactory{

public Document createDocument(){

return new WordDoc();

}

}

class Pdffactory extends DocumentFactory{

public Document createDocument(){

return new Pdfdoc();

}

}

class Excelfactory extends DocumentFactory{

public Document createDocument(){

return new Excel();

}

}

public class Main

{

public static void main(String[] args) {

DocumentFactory fact = new Wordfactory();

Document word = fact.createDocument();

word.open();

DocumentFactory fact2 = new Pdffactory();

Document pdf = fact2.createDocument();

pdf.open();

DocumentFactory fact3 = new Excelfactory();

Document excel = fact3.createDocument();

excel.open();

}

}

