interface Document {

void open();

}

class WordDocument implements Document {

@Override

public void open() {

System.out.println("Opening Word Document...");

}

}

class PdfDocument implements Document {

@Override

public void open() {

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

}

}

class ExcelDocument implements Document {

@Override

public void open() {

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

}

}

abstract class DocumentFactory {

public abstract Document createDocument();

}

class WordDocumentFactory extends DocumentFactory {

@Override

public Document createDocument() {

return new WordDocument();

}

}

class PdfDocumentFactory extends DocumentFactory {

@Override

public Document createDocument() {

return new PdfDocument();

}

}

class ExcelDocumentFactory extends DocumentFactory {

@Override

public Document createDocument() {

return new ExcelDocument();

}

}

public class Main {

public static void main(String[] args) {

DocumentFactory factory = new PdfDocumentFactory();

Document document = factory.createDocument();

document.open();

}

}

OUTPUT:

