WEEK :- Factory method Pattern Example

package factorymethodpatternexample;

public interface Document {

public abstract void openTheDocument();

}

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package factorymethodpatternexample;

public abstract class DocumentFactory {

public abstract Document createDocument();

}

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package factorymethodpatternexample;

public class ExcelDocument implements Document {

*@Override*

public void openTheDocument()

{

System.***out***.println("This is an Excel Document");

}

}

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package factorymethodpatternexample;

public class ExcelDocumentFactory extends DocumentFactory {

public Document createDocument()

{

return new ExcelDocument();

}

}

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package factorymethodpatternexample;

public class Main {

public static void main(String[] args) {

DocumentFactory wordDocumentFactory = new WordDocumentFactory();

Document wordDocument = wordDocumentFactory.createDocument();

wordDocument.openTheDocument();

DocumentFactory excelDocumentFactory = new ExcelDocumentFactory();

Document excelDocument = excelDocumentFactory.createDocument();

excelDocument.openTheDocument();

DocumentFactory pdfDocumentFactory = new PdfDocumentFactory();

Document pdfDocument = pdfDocumentFactory.createDocument();

pdfDocument.openTheDocument();

}

}

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package factorymethodpatternexample;

public class PdfDocument implements Document {

*@Override*

public void openTheDocument()

{

System.***out***.println("The is is a PDF Document");

}

}

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package factorymethodpatternexample;

public class PdfDocumentFactory extends DocumentFactory {

public Document createDocument()

{

return new PdfDocument();

}

}

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package factorymethodpatternexample;

public class WordDocument implements Document{

*@Override*

public void openTheDocument()

{

System.***out***.println("This is a Word Document");

}

}

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package factorymethodpatternexample;

public class WordDocumentFactory extends DocumentFactory {

public Document createDocument()

{

return new WordDocument();

}

}

**OUTPUT:**

