

Document.java

```
package factorymethod;

public interface Document {
    void open();
}
```

WordDocument.java

```
package factorymethod;

public class WordDocument implements Document {
    public void open() {
        System.out.println("Opening Word Document...");
    }
}
```

PdfDocument.java

```
package factorymethod;

public class PdfDocument implements Document {
    public void open() {
        System.out.println("Opening PDF Document...");
    }
}
```

ExcelDocument.java

```
package factorymethod;

public class ExcelDocument implements Document {
    public void open() {
        System.out.println("Opening Excel Document...");
    }
}
```

DocumentFactory.java

```
package factorymethod;

public abstract class DocumentFactory {
    public abstract Document createDocument();
}
```

WordDocumentFactory.java

```
package factorymethod;

public class WordDocumentFactory extends DocumentFactory {
    public Document createDocument() {
        return new WordDocument();
    }
}
```

PdfDocumentFactory.java

```
package factorymethod;
```

```
public class PdfDocumentFactory extends DocumentFactory {  
    public Document createDocument() {  
        return new PdfDocument();  
    }  
}
```

ExcelDocumentFactory.java

```
package factorymethod;
```

```
public class ExcelDocumentFactory extends DocumentFactory {  
    public Document createDocument() {  
        return new ExcelDocument();  
    }  
}
```

TestFactoryPattern.java

```
package factorymethod;
```

```
public class TestFactoryPattern {  
    public static void main(String[] args) {  
        DocumentFactory wordFactory = new WordDocumentFactory();  
        Document wordDoc = wordFactory.createDocument();  
        wordDoc.open();  
  
        DocumentFactory pdfFactory = new PdfDocumentFactory();  
        Document pdfDoc = pdfFactory.createDocument();  
        pdfDoc.open();  
  
        DocumentFactory excelFactory = new ExcelDocumentFactory();  
        Document excelDoc = excelFactory.createDocument();  
        excelDoc.open();  
    }  
}
```