FactoryMethodPattern

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

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

ExcelDocument.java > ...
```java
public class ExcelDocument implements Document {
    @Override
    public void open() {
        System.out.println(x:"Opening an Excel document.");
    }
}
```

ExcelDocumentFactory.java > ...
```java
public class ExcelDocumentFactory extends DocumentFactory {
    @Override
    public Document createDocument() {
        return new ExcelDocument();
    }
}
```

Main.java > ...
```java
public class Main {
    Run | Debug
    public static void main(String[] args) {
        DocumentFactory wordFactory = new WordDocumentFactory();
        Document word = wordFactory.createDocument();
        word.open();

        DocumentFactory pdfFactory = new PdfDocumentFactory();
        Document pdf = pdfFactory.createDocument();
        pdf.open();

        DocumentFactory excelFactory = new ExcelDocumentFactory();
        Document excel = excelFactory.createDocument();
        excel.open();
    }
}
```

```java
PdfDocument.java > ...
1  public class PdfDocument implements Document {
2      @Override
3      public void open() {
4          System.out.println(x:"Opening a PDF document.");
5      }
6  }
```

```java
PdfDocumentFactory.java > ...
1  public class PdfDocumentFactory extends DocumentFactory {
2      @Override
3      public Document createDocument() {
4          return new PdfDocument();
5      }
6  }
7
```

```java
WordDocument.java > ...
1  public class WordDocument implements Document {
2      @Override
3      public void open() {
4          System.out.println(x:"Opening a Word document.");
5      }
6  }
```

```java
WordDocumentFactory.java > ...
1  public class WordDocumentFactory extends DocumentFactory {
2      @Override
3      public Document createDocument() {
4          return new WordDocument();
5      }
6  }
7
```

OUTPUT

```
Opening a Word document.
Opening a PDF document.
Opening an Excel document.
```