Step 1: Create a New Java Project

Project Name: FactoryMethodPatternExample

Step 2: Define Document Interface

```
File: Document.java
public interface Document {
    void open();
}
Step 3: Create Concrete Document Classes
File: WordDocument.java
public class WordDocument implements Document {
   @Override
    public void open() {
        System.out.println("Opening a Word document.");
    }
}
File: PdfDocument.java
public class PdfDocument implements Document {
    @Override
    public void open() {
        System.out.println("Opening a PDF document.");
    }
}
File: ExcelDocument.java
public class ExcelDocument implements Document {
    @Override
    public void open() {
        System.out.println("Opening an Excel document.");
    }
}
```

Step 4: Implement the Factory Method

```
File: DocumentFactory.java
public abstract class DocumentFactory {
    public abstract Document createDocument();
}
File: WordDocumentFactory.java
public class WordDocumentFactory extends DocumentFactory {
   @Override
    public Document createDocument() {
        return new WordDocument();
    }
}
File: PdfDocumentFactory.java
public class PdfDocumentFactory extends DocumentFactory {
   @Override
    public Document createDocument() {
        return new PdfDocument();
    }
}
File: ExcelDocumentFactory.java
public class ExcelDocumentFactory extends DocumentFactory {
   @Override
    public Document createDocument() {
        return new ExcelDocument();
    }
}
```

Step 5: Test the Factory Method Implementation

File: Main.java

```
public class Main {
    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();
    }
}
Expected Output:
Opening a Word document.
Opening a PDF document.
Opening an Excel document.
```

Final output:

