**Implementing the Factory Method Pattern**

**Code:**

public class FactoryMethodPatternExample {

    interface Document {

        void open();

    }

    static class WordDocument implements Document {

        public void open() {

            System.out.println("Word Document Is Opened!");

        }

    }

    static class PdfDocument implements Document {

        public void open() {

            System.out.println("Pdf Document Is Opened!");

        }

    }

    static class ExcelDocument implements Document {

        public void open() {

            System.out.println("Excel Document Is Opened!");

        }

    }

    static abstract class DocumentFactory {

        public abstract Document createDocument();

    }

    static class WordDocumentFactory extends DocumentFactory {

        public Document createDocument() {

            return new WordDocument();

        }

    }

    static class PdfDocumentFactory extends DocumentFactory {

        public Document createDocument() {

            return new PdfDocument();

        }

    }

    static class ExcelDocumentFactory extends DocumentFactory {

        public Document createDocument() {

            return new ExcelDocument();

        }

    }

    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();

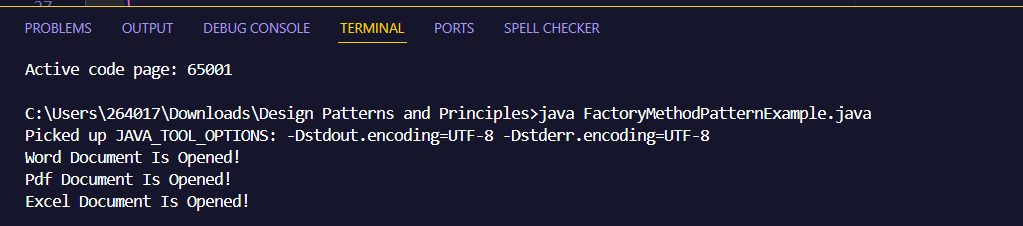
        Document Excel = ExcelFactory.createDocument();

        Excel.open();

    }

}

**Output:**

****