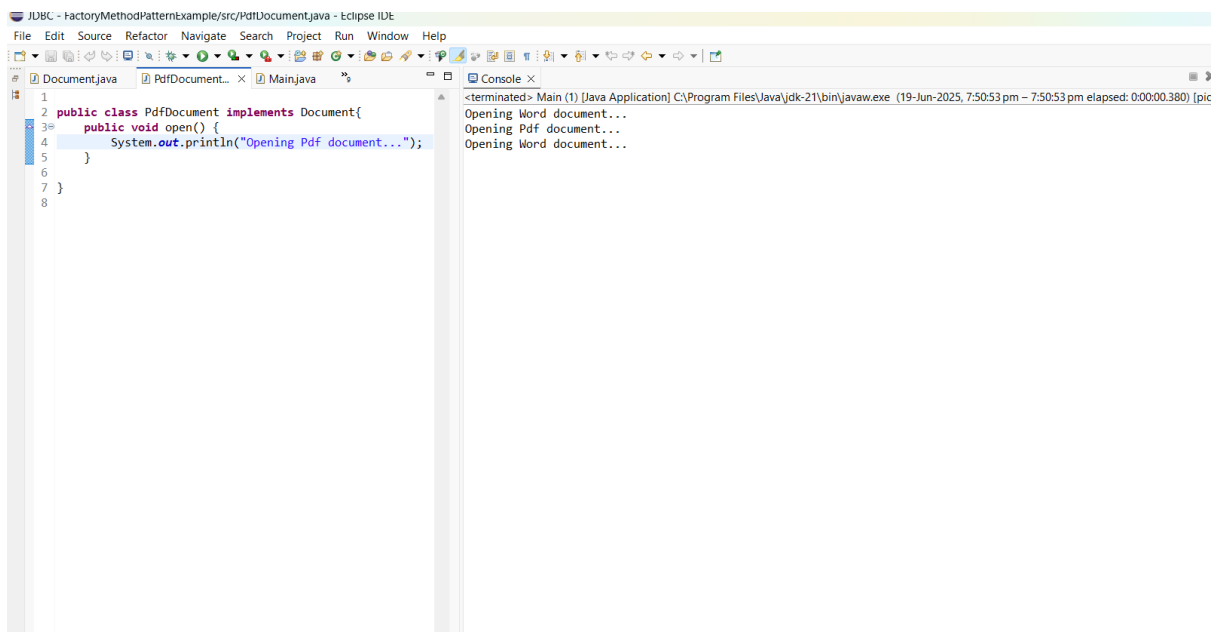


Week 1

Design Principles And Patterns Hands On

Exercise 2: Implementing the Factory Method Pattern

Output snapshots:

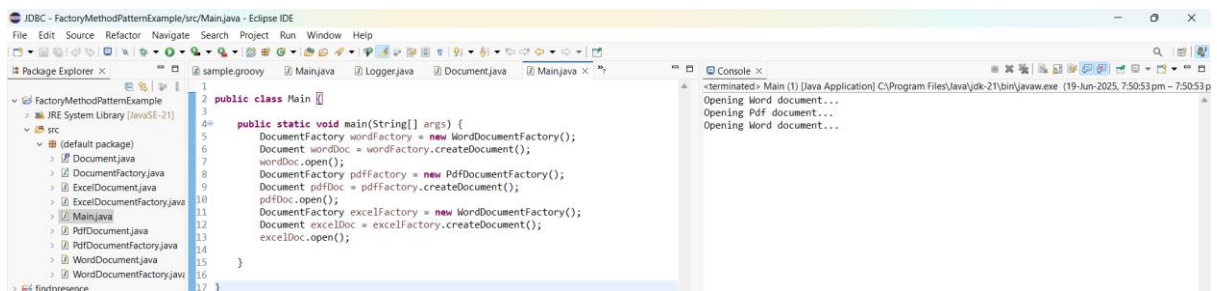


This screenshot shows the Eclipse IDE with the file `PdfDocument.java` open. The code defines a `PdfDocument` class that implements the `Document` interface. It has a `public void open()` method that prints "Opening Pdf document...". The console on the right shows the output of the program, which includes the text "Opening Pdf document..." and "Opening Word document..." (likely from another part of the program not shown).

```
1 public class PdfDocument implements Document {
2     public void open() {
3         System.out.println("Opening Pdf document...");
4     }
5 }
6
7
8
```

Console Output:

```
<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (19-Jun-2025, 7:50:53 pm - 7:50:53 pm elapsed: 0:00:00.380) [pic
Opening Word document...
Opening Pdf document...
Opening Word document...
```



This screenshot shows the Eclipse IDE with the file `Main.java` open. The code defines a `Main` class with a `main` method that creates and opens documents using the Factory Method Pattern. It creates a `WordDocumentFactory` and a `PdfDocumentFactory`, then uses them to create and open `WordDocument` and `PdfDocument` objects. The console on the right shows the output of the program, which includes the text "Opening Word document..." and "Opening Pdf document..." (likely from another part of the program not shown).

```
1 public class Main {
2     public static void main(String[] args) {
3         DocumentFactory wordFactory = new WordDocumentFactory();
4         Document wordDoc = wordFactory.createDocument();
5         wordDoc.open();
6         DocumentFactory pdfFactory = new PdfDocumentFactory();
7         Document pdfDoc = pdfFactory.createDocument();
8         pdfDoc.open();
9         DocumentFactory excelFactory = new WordDocumentFactory();
10        Document excelDoc = excelFactory.createDocument();
11        excelDoc.open();
12    }
13 }
14
15
16
17
```

Console Output:

```
<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (19-Jun-2025, 7:50:53 pm - 7:50:53 p
Opening Word document...
Opening Pdf document...
Opening Word document...
```